



## SB SERIES, FOR GENERAL USE

### APPLICATIONS

I/O Ports, DC Power Lines, and Signal Lines

Computer and Peripheral Products

Consumer Electronic Products

### FEATURES

Standard type used to suppress lower-frequency, lower current signals.

Impedance over a Broad Frequency Range

Suitable for Flow and Reflow Soldering

Available in 8 Sizes

## ELECTRICAL CHARACTERISTICS

| PART NO.          | IMPEDANCE<br>at 100MHz<br>( $\Omega \pm 25\%$ ) | DC<br>RESISTANCE<br>( $\Omega$ ) Max. | RATED<br>CURRENT<br>(mA) Max. | PART NO.          | IMPEDANCE<br>at 100MHz<br>( $\Omega \pm 25\%$ ) | DC<br>RESISTANCE<br>( $\Omega$ ) Max. | RATED<br>CURRENT<br>(mA) Max. |
|-------------------|-------------------------------------------------|---------------------------------------|-------------------------------|-------------------|-------------------------------------------------|---------------------------------------|-------------------------------|
| SBY100505T-060Y-S | 6                                               | 0.05                                  | 500                           | SBK201209T-751Y-S | 750                                             | 0.50                                  | 200                           |
| SBY100505T-100Y-S | 10                                              | 0.05                                  | 500                           | SBK201209T-102Y-S | 1000                                            | 0.50                                  | 200                           |
| SBY100505T-400Y-S | 40                                              | 0.30                                  | 300                           | SBK201209T-152Y-S | 1500                                            | 0.60                                  | 200                           |
| SBY100505T-800Y-S | 80                                              | 0.40                                  | 200                           | SBK201209T-202Y-S | 2000                                            | 0.80                                  | 100                           |
| SBY100505T-121Y-S | 120                                             | 0.50                                  | 200                           | SBK201209T-222Y-S | 2200                                            | 1.00                                  | 100                           |
| SBY100505T-241Y-S | 240                                             | 0.50                                  | 200                           | SBK201209T-252Y-S | 2500                                            | 1.00                                  | 100                           |
| SBY100505T-481Y-S | 480                                             | 0.80                                  | 200                           | SBK201209T-272Y-S | 2700                                            | 1.50                                  | 100                           |
| SBY100505T-601Y-S | 600                                             | 1.00                                  | 200                           | SBY321611T-190Y-S | 19                                              | 0.05                                  | 600                           |
| SBY100505T-102Y-S | 1000                                            | 1.50                                  | 100                           | SBY321611T-260Y-S | 26                                              | 0.05                                  | 600                           |
| SBY100505T-152Y-S | 1500                                            | 2.00                                  | 60                            | SBY321611T-320Y-S | 32                                              | 0.05                                  | 600                           |
| SBK160808T-110Y-S | 11                                              | 0.05                                  | 500                           | SBY321611T-500Y-S | 50                                              | 0.10                                  | 500                           |
| SBK160808T-190Y-S | 19                                              | 0.08                                  | 500                           | SBY321611T-600Y-S | 60                                              | 0.10                                  | 500                           |
| SBK160808T-300Y-S | 30                                              | 0.10                                  | 400                           | SBK321611T-700Y-S | 70                                              | 0.10                                  | 500                           |
| SBK160808T-400Y-S | 40                                              | 0.10                                  | 400                           | SBK321611T-900Y-S | 90                                              | 0.15                                  | 500                           |
| SBK160808T-600Y-S | 60                                              | 0.10                                  | 300                           | SBK321611T-121Y-S | 120                                             | 0.15                                  | 500                           |
| SBK160808T-800Y-S | 80                                              | 0.15                                  | 300                           | SBK321611T-151Y-S | 150                                             | 0.15                                  | 500                           |
| SBK160808T-121Y-S | 120                                             | 0.25                                  | 300                           | SBK321611T-201Y-S | 200                                             | 0.20                                  | 400                           |
| SBK160808T-221Y-S | 220                                             | 0.30                                  | 200                           | SBK321611T-401Y-S | 400                                             | 0.20                                  | 400                           |
| SBK160808T-301Y-S | 300                                             | 0.40                                  | 200                           | SBK321611T-501Y-S | 500                                             | 0.20                                  | 400                           |
| SBK160808T-451Y-S | 450                                             | 0.50                                  | 200                           | SBK321611T-601Y-S | 600                                             | 0.30                                  | 400                           |
| SBK160808T-601Y-S | 600                                             | 0.50                                  | 200                           | SBK321611T-102Y-S | 1000 *                                          | 0.40                                  | 200                           |
| SBK160808T-751Y-S | 750                                             | 0.70                                  | 200                           | SBK321611T-122Y-S | 1200 *                                          | 0.40                                  | 200                           |
| SBK160808T-102Y-S | 1000                                            | 0.70                                  | 200                           | SBK321611T-152Y-S | 1500 *                                          | 0.45                                  | 200                           |
| SBK160808T-152Y-S | 1500                                            | 1.00                                  | 50                            | SBK321611T-202Y-S | 2000 **                                         | 0.60                                  | 200                           |
| SBK160808T-222Y-S | 2200                                            | 1.20                                  | 50                            | SBK321611T-272Y-S | 2700 **                                         | 0.60                                  | 200                           |
| SBK160808T-272Y-S | 2700                                            | 1.30                                  | 50                            | SBY321616T-250Y-S | 25                                              | 0.10                                  | 500                           |
| SBY201209T-070Y-S | 7                                               | 0.10                                  | 600                           | SBY321616T-600Y-S | 60                                              | 0.20                                  | 500                           |
| SBY201209T-090Y-S | 9                                               | 0.10                                  | 600                           | SBK321616T-700Y-S | 70                                              | 0.20                                  | 500                           |
| SBY201209T-110Y-S | 11                                              | 0.10                                  | 600                           | SBY322513T-320Y-S | 32                                              | 0.20                                  | 500                           |
| SBY201209T-170Y-S | 17                                              | 0.10                                  | 600                           | SBY322513T-600Y-S | 60                                              | 0.20                                  | 500                           |
| SBY201209T-320Y-S | 32                                              | 0.10                                  | 600                           | SBY322513T-900Y-S | 90                                              | 0.20                                  | 500                           |
| SBK201209T-600Y-S | 60                                              | 0.15                                  | 500                           | SBY451616T-500Y-S | 50                                              | 0.20                                  | 600                           |
| SBK201209T-700Y-S | 70                                              | 0.15                                  | 500                           | SBY451616T-600Y-S | 60                                              | 0.20                                  | 600                           |
| SBK201209T-800Y-S | 80                                              | 0.15                                  | 500                           | SBY451616T-800Y-S | 80                                              | 0.20                                  | 600                           |
| SBK201209T-121Y-S | 120                                             | 0.25                                  | 300                           | SBY451616T-101Y-S | 100                                             | 0.30                                  | 500                           |
| SBK201209T-151Y-S | 150                                             | 0.25                                  | 300                           | SBK451616T-151Y-S | 150                                             | 0.30                                  | 500                           |
| SBK201209T-221Y-S | 220                                             | 0.30                                  | 300                           | SBK451616T-171Y-S | 170                                             | 0.30                                  | 500                           |
| SBK201209T-301Y-S | 300                                             | 0.30                                  | 300                           | SBY453215T-700Y-S | 70                                              | 0.30                                  | 500                           |
| SBK201209T-401Y-S | 400                                             | 0.30                                  | 300                           | SBY453215T-121Y-S | 120                                             | 0.30                                  | 500                           |
| SBK201209T-501Y-S | 500                                             | 0.40                                  | 300                           |                   |                                                 |                                       |                               |
| SBK201209T-601Y-S | 600                                             | 0.40                                  | 300                           |                   |                                                 |                                       |                               |

Note : \* at 50MHz

\*\* at 30MHz



## LEAD-FREE & ROHS COMPLIANCE

| PART NO.          | IMPEDANCE<br>( $\Omega \pm 25\%$ ) | RDC<br>( $\Omega$ ) Max. | RATED<br>CURRENT<br>(mA) Max. | PART NO.          | IMPEDANCE<br>( $\Omega \pm 25\%$ ) | RDC<br>( $\Omega$ ) Max. | RATED<br>CURRENT<br>(mA) Max. |
|-------------------|------------------------------------|--------------------------|-------------------------------|-------------------|------------------------------------|--------------------------|-------------------------------|
| SBY100505T-060□-N | 6                                  | 0.05                     | 500                           | SBK160808T-501□-N | 500                                | 0.5                      | 200                           |
| SBY100505T-100□-N | 10                                 | 0.05                     | 500                           | SBK160808T-601□-N | 600                                | 0.5                      | 200                           |
| SBY100505T-300□-N | 30                                 | 0.3                      | 300                           | SBK160808T-751□-N | 750                                | 0.7                      | 200                           |
| SBY100505T-400□-N | 40                                 | 0.3                      | 300                           | SBK160808T-102□-N | 1000                               | 0.7                      | 200                           |
| SBY100505T-470□-N | 47                                 | 0.4                      | 200                           | SBK160808T-122□-N | 1200                               | 1                        | 50                            |
| SBY100505T-600□-N | 60                                 | 0.4                      | 200                           | SBK160808T-152□-N | 1500                               | 1                        | 50                            |
| SBY100505T-700□-N | 70                                 | 0.4                      | 200                           | SBK160808T-202□-N | 2000                               | 1.2                      | 50                            |
| SBY100505T-750□-N | 75                                 | 0.4                      | 200                           | SBK160808T-222□-N | 2200                               | 1.2                      | 50                            |
| SBY100505T-800□-N | 80                                 | 0.4                      | 200                           | SBK160808T-252□-N | 2500                               | 1.3                      | 50                            |
| SBY100505T-121□-N | 120                                | 0.5                      | 200                           | SBK160808T-272□-N | 2700                               | 1.3                      | 50                            |
| SBY100505T-151□-N | 150                                | 0.5                      | 200                           | SBY201209T-070□-N | 7                                  | 0.1                      | 600                           |
| SBY100505T-221□-N | 220                                | 0.5                      | 200                           | SBY201209T-090□-N | 9                                  | 0.1                      | 600                           |
| SBY100505T-241□-N | 240                                | 0.5                      | 200                           | SBY201209T-100□-N | 10                                 | 0.1                      | 600                           |
| SBY100505T-301□-N | 300                                | 0.8                      | 200                           | SBY201209T-110□-N | 11                                 | 0.1                      | 600                           |
| SBY100505T-481□-N | 480                                | 0.8                      | 200                           | SBY201209T-170□-N | 17                                 | 0.1                      | 600                           |
| SBY100505T-601□-N | 600                                | 1                        | 200                           | SBY201209T-190□-N | 19                                 | 0.1                      | 600                           |
| SBY100505T-102□-N | 1000                               | 1.5                      | 100                           | SBY201209T-220□-N | 22                                 | 0.1                      | 600                           |
| SBY100505T-152□-N | 1500                               | 2                        | 60                            | SBY201209T-260□-N | 26                                 | 0.1                      | 600                           |
| SBK160808T-050□-N | 5                                  | 0.05                     | 500                           | SBY201209T-280□-N | 28                                 | 0.1                      | 600                           |
| SBK160808T-060□-N | 6                                  | 0.05                     | 500                           | SBY201209T-300□-N | 30                                 | 0.1                      | 600                           |
| SBK160808T-070□-N | 7                                  | 0.05                     | 500                           | SBY201209T-310□-N | 31                                 | 0.1                      | 600                           |
| SBK160808T-100□-N | 10                                 | 0.05                     | 500                           | SBY201209T-320□-N | 32                                 | 0.1                      | 600                           |
| SBK160808T-110□-N | 11                                 | 0.05                     | 500                           | SBY201209T-390□-N | 39                                 | 0.1                      | 500                           |
| SBK160808T-150□-N | 15                                 | 0.08                     | 500                           | SBY201209T-400□-N | 40                                 | 0.1                      | 500                           |
| SBK160808T-170□-N | 17                                 | 0.08                     | 500                           | SBY201209T-470□-N | 47                                 | 0.1                      | 500                           |
| SBK160808T-190□-N | 19                                 | 0.08                     | 500                           | SBY201209T-500□-N | 50                                 | 0.1                      | 500                           |
| SBK160808T-220□-N | 22                                 | 0.1                      | 400                           | SBY201209T-560□-N | 56                                 | 0.15                     | 500                           |
| SBK160808T-250□-N | 25                                 | 0.1                      | 400                           | SBK201209T-600□-N | 60                                 | 0.15                     | 500                           |
| SBK160808T-260□-N | 26                                 | 0.1                      | 400                           | SBK201209T-700□-N | 70                                 | 0.15                     | 500                           |
| SBK160808T-300□-N | 30                                 | 0.1                      | 400                           | SBK201209T-750□-N | 75                                 | 0.15                     | 500                           |
| SBK160808T-310□-N | 31                                 | 0.1                      | 400                           | SBK201209T-800□-N | 80                                 | 0.15                     | 500                           |
| SBK160808T-400□-N | 40                                 | 0.1                      | 400                           | SBK201209T-900□-N | 90                                 | 0.15                     | 500                           |
| SBK160808T-470□-N | 47                                 | 0.1                      | 300                           | SBK201209T-101□-N | 100                                | 0.25                     | 300                           |
| SBK160808T-500□-N | 50                                 | 0.1                      | 300                           | SBK201209T-121□-N | 120                                | 0.25                     | 300                           |
| SBK160808T-600□-N | 60                                 | 0.1                      | 300                           | SBK201209T-151□-N | 150                                | 0.25                     | 300                           |
| SBK160808T-680□-N | 68                                 | 0.15                     | 300                           | SBK201209T-201□-N | 200                                | 0.3                      | 300                           |
| SBK160808T-700□-N | 70                                 | 0.15                     | 300                           | SBK201209T-221□-N | 220                                | 0.3                      | 300                           |
| SBK160808T-750□-N | 75                                 | 0.15                     | 300                           | SBK201209T-241□-N | 240                                | 0.3                      | 300                           |
| SBK160808T-800□-N | 80                                 | 0.15                     | 300                           | SBK201209T-301□-N | 300                                | 0.3                      | 300                           |
| SBK160808T-900□-N | 90                                 | 0.2                      | 300                           | SBK201209T-331□-N | 330                                | 0.3                      | 300                           |
| SBK160808T-101□-N | 100                                | 0.2                      | 300                           | SBK201209T-401□-N | 400                                | 0.3                      | 300                           |
| SBK160808T-121□-N | 120                                | 0.25                     | 400                           | SBK201209T-431□-N | 430                                | 0.4                      | 300                           |
| SBK160808T-151□-N | 150                                | 0.3                      | 200                           | SBK201209T-451□-N | 450                                | 0.4                      | 300                           |
| SBK160808T-181□-N | 180                                | 0.3                      | 200                           | SBK201209T-471□-N | 470                                | 0.4                      | 300                           |
| SBK160808T-201□-N | 200                                | 0.3                      | 200                           | SBK201209T-501□-N | 500                                | 0.4                      | 300                           |
| SBK160808T-121□-N | 220                                | 0.3                      | 200                           | SBK201209T-601□-N | 600                                | 0.4                      | 300                           |
| SBK160808T-241□-N | 240                                | 0.4                      | 200                           | SBK201209T-751□-N | 750                                | 0.5                      | 200                           |
| SBK160808T-301□-N | 300                                | 0.4                      | 200                           | SBK201209T-102□-N | 1000                               | 0.5                      | 200                           |
| SBK160808T-331□-N | 330                                | 0.5                      | 200                           | SBK201209T-122□-N | 1200                               | 0.6                      | 200                           |
| SBK160808T-451□-N | 450                                | 0.5                      | 200                           | SBK201209T-152□-N | 1500                               | 0.6                      | 200                           |
| SBK160808T-471□-N | 470                                | 0.5                      | 200                           | SBK201209T-202□-N | 2000                               | 0.8                      | 100                           |



## LEAD-FREE & ROHS COMPLIANCE

| PART NO.          | IMPEDANCE             | RDC               | RATED<br>CURRENT | PART NO.          | IMPEDANCE             | RDC               | RATED<br>CURRENT |
|-------------------|-----------------------|-------------------|------------------|-------------------|-----------------------|-------------------|------------------|
|                   | ( $\Omega \pm 25\%$ ) | ( $\Omega$ ) Max. | (mA) Max.        |                   | ( $\Omega \pm 25\%$ ) | ( $\Omega$ ) Max. | (mA) Max.        |
| SBK201209T-222□-N | 2200                  | 1                 | 100              | SBK321611T-401□-N | 400                   | 0.2               | 400              |
| SBK201209T-252□-N | 2500                  | 1                 | 100              | SBK321611T-471□-N | 470                   | 0.2               | 400              |
| SBK201209T-272□-N | 2700                  | 1.5               | 100              | SBK321611T-501□-N | 500                   | 0.2               | 400              |
| SBY321611T-080□-N | 8                     | 0.05              | 600              | SBK321611T-601□-N | 600                   | 0.3               | 400              |
| SBY321611T-090□-N | 9                     | 0.05              | 600              | SBK321611T-102□-N | 1000                  | 0.4               | 200              |
| SBY321611T-110□-N | 11                    | 0.05              | 600              | SBK321611T-122□-N | 1200                  | 0.4               | 200              |
| SBY321611T-190□-N | 19                    | 0.05              | 600              | SBK321611T-152□-N | 1500                  | 0.45              | 200              |
| SBY321611T-260□-N | 26                    | 0.05              | 600              | SBK321611T-202□-N | 2000                  | 0.6               | 200              |
| SBY321611T-300□-N | 30                    | 0.05              | 600              | SBY321616T-250□-N | 25                    | 0.1               | 500              |
| SBY321611T-310□-N | 31                    | 0.05              | 600              | SBY321616T-600□-N | 60                    | 0.2               | 500              |
| SBY321611T-320□-N | 32                    | 0.05              | 600              | SBK321616T-700□-N | 70                    | 0.2               | 500              |
| SBY321611T-470□-N | 47                    | 0.1               | 500              | SBY322513T-320□-N | 32                    | 0.2               | 500              |
| SBY321611T-500□-N | 50                    | 0.1               | 500              | SBY322513T-600□-N | 60                    | 0.2               | 500              |
| SBY321611T-600□-N | 60                    | 0.1               | 500              | SBY322513T-900□-N | 90                    | 0.2               | 500              |
| SBK321611T-700□-N | 70                    | 0.1               | 500              | SBY451616T-500□-N | 50                    | 0.2               | 600              |
| SBK321611T-750□-N | 75                    | 0.15              | 500              | SBY451616T-600□-N | 60                    | 0.2               | 600              |
| SBK321611T-800□-N | 80                    | 0.15              | 500              | SBY451616T-800□-N | 80                    | 0.2               | 600              |
| SBK321611T-900□-N | 90                    | 0.15              | 500              | SBY451616T-900□-N | 90                    | 0.3               | 500              |
| SBK321611T-101□-N | 100                   | 0.15              | 500              | SBY451616T-101□-N | 100                   | 0.3               | 500              |
| SBK321611T-121□-N | 120                   | 0.15              | 500              | SBK451616T-151□-N | 150                   | 0.3               | 500              |
| SBK321611T-151□-N | 150                   | 0.15              | 500              | SBK451616T-171□-N | 170                   | 0.3               | 500              |
| SBK321611T-201□-N | 200                   | 0.2               | 400              | SBY453215T-700□-N | 70                    | 0.3               | 500              |
| SBK321611T-221□-N | 220                   | 0.2               | 400              | SBY453215T-121□-N | 120                   | 0.3               | 500              |
| SBK321611T-301□-N | 300                   | 0.2               | 400              |                   |                       |                   |                  |



## PB SERIES, FOR HIGH CURRENT USE

### APPLICATIONS

High current DC power lines for USB interface circuitry, personal computers, electronic games, hard disk drives, and other general electronic equipment.

### FEATURES

Suitable for High Current Applications  
 Small Package Size-EIA STD 0402/0603/0805/1206/1806 and 1812  
 Nickel Barrier Terminations Provide Excellent Solder Heat Resistance  
 Current Rating up to 6 AMPS (Max) (High Current Handling Capacity)  
 Low DCR  
 Suitable for Flow and Reflow Soldering  
 Available in 6 Sizes

## ELECTRICAL CHARACTERISTICS

| PART NO.          | IMPEDANCE<br>at 100MHz ( $\Omega \pm 25\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|----------------------------------------------|------------------------------------|----------------------------|
| PBY100505T-100Y-S | 10                                           | 0.03                               | 1000                       |
| PBY160808T-110Y-S | 11                                           | 0.02                               | 4000                       |
| PBY160808T-250Y-S | 25                                           | 0.03                               | 3000                       |
| PBY160808T-400Y-S | 40                                           | 0.035                              | 3000                       |
| PBY160808T-600Y-S | 60                                           | 0.04                               | 3000                       |
| PBY160808T-121Y-S | 120                                          | 0.08                               | 2500                       |
| PBY160808T-151Y-S | 150                                          | 0.085                              | 2000                       |
| PBY160808T-181Y-S | 180                                          | 0.09                               | 2000                       |
| PBY160808T-201Y-S | 200                                          | 0.095                              | 2000                       |
| PBY160808T-301Y-S | 300                                          | 0.10                               | 2000                       |
| PBY160808T-501Y-S | 500                                          | 0.15                               | 1500                       |
| PBY160808T-601Y-S | 600                                          | 0.20                               | 1000                       |
| PBY160808T-102Y-S | 1000                                         | 0.25                               | 800                        |
| PBY201209T-110Y-S | 11                                           | 0.01                               | 6000                       |
| PBY201209T-170Y-S | 17                                           | 0.02                               | 5000                       |
| PBY201209T-300Y-S | 30                                           | 0.015                              | 5000                       |
| PBY201209T-500Y-S | 50                                           | 0.025                              | 3000                       |
| PBY201209T-600Y-S | 60                                           | 0.03                               | 3000                       |
| PBY201209T-800Y-S | 80                                           | 0.04                               | 3000                       |
| PBY201209T-121Y-S | 120                                          | 0.04                               | 3000                       |
| PBY201209T-201Y-S | 200                                          | 0.05                               | 2500                       |
| PBY201209T-301Y-S | 300                                          | 0.08                               | 2000                       |
| PBY201209T-601Y-S | 600                                          | 0.10                               | 2000                       |
| PBY201209T-102Y-S | 1000                                         | 0.12                               | 1500                       |
| PBY321611T-190Y-S | 19                                           | 0.015                              | 6000                       |
| PBY321611T-320Y-S | 32                                           | 0.015                              | 4000                       |
| PBY321611T-500Y-S | 50                                           | 0.02                               | 4000                       |
| PBY321611T-800Y-S | 80                                           | 0.025                              | 3000                       |
| PBY321611T-101Y-S | 100                                          | 0.03                               | 2500                       |
| PBY321611T-121Y-S | 120                                          | 0.03                               | 2500                       |
| PBY321611T-221Y-S | 220                                          | 0.05                               | 2000                       |
| PBY321611T-301Y-S | 300                                          | 0.06                               | 2000                       |
| PBY321611T-601Y-S | 600                                          | 0.10                               | 1800                       |
| PBY321611T-102Y-S | 1000 *                                       | 0.15                               | 1200                       |
| PBY321611T-122Y-S | 1200 *                                       | 0.18                               | 1000                       |
| PBY321611T-152Y-S | 1500 *                                       | 0.20                               | 800                        |
| PBY322513T-600Y-S | 60                                           | 0.025                              | 4000                       |
| PBY322513T-900Y-S | 90                                           | 0.025                              | 3000                       |
| PBY451616T-500Y-S | 50                                           | 0.020                              | 6000                       |
| PBY451616T-600Y-S | 60                                           | 0.020                              | 5000                       |
| PBY451616T-800Y-S | 80                                           | 0.025                              | 4000                       |
| PBY451616T-900Y-S | 90                                           | 0.04                               | 4000                       |
| PBY451616T-151Y-S | 150                                          | 0.100                              | 2000                       |
| PBY453215T-700Y-S | 70                                           | 0.03                               | 6000                       |
| PBY453215T-121Y-S | 120                                          | 0.03                               | 4000                       |
| PBY453215T-151Y-S | 150                                          | 0.03                               | 4000                       |
| PBY453215T-601Y-S | 600                                          | 0.1                                | 2000                       |

Note: \* at 50MHz



## LEAD-FREE & ROHS COMPLIANCE

| PART NO.          | IMPEDANCE             | RDC               | RATED CURRENT | PART NO.          | IMPEDANCE             | RDC               | RATED CURRENT |
|-------------------|-----------------------|-------------------|---------------|-------------------|-----------------------|-------------------|---------------|
|                   | ( $\Omega \pm 25\%$ ) | ( $\Omega$ ) Max. | (mA) Max.     |                   | ( $\Omega \pm 25\%$ ) | ( $\Omega$ ) Max. | (mA) Max.     |
| PBY100505T-100□-N | 10                    | 0.03              | 1000          | PBY201209T-151□-N | 150                   | 0.05              | 2500          |
| PBY160808T-100□-N | 10                    | 0.02              | 4000          | PBY201209T-181□-N | 180                   | 0.05              | 2500          |
| PBY160808T-110□-N | 11                    | 0.02              | 4000          | PBY201209T-201□-N | 200                   | 0.05              | 2500          |
| PBY160808T-190□-N | 19                    | 0.03              | 3000          | PBY201209T-221□-N | 220                   | 0.08              | 2000          |
| PBY160808T-200□-N | 20                    | 0.03              | 3000          | PBY201209T-301□-N | 300                   | 0.08              | 2000          |
| PBY160808T-220□-N | 22                    | 0.03              | 3000          | PBY201209T-331□-N | 330                   | 0.08              | 2000          |
| PBY160808T-250□-N | 25                    | 0.03              | 3000          | PBY201209T-401□-N | 400                   | 0.1               | 2000          |
| PBY160808T-300□-N | 30                    | 0.03              | 3000          | PBY201209T-471□-N | 470                   | 0.1               | 2000          |
| PBY160808T-310□-N | 31                    | 0.035             | 3000          | PBY201209T-501□-N | 500                   | 0.1               | 2000          |
| PBY160808T-400□-N | 40                    | 0.035             | 3000          | PBY201209T-601□-N | 600                   | 0.1               | 2000          |
| PBY160808T-470□-N | 47                    | 0.04              | 3000          | PBY201209T-102□-N | 1000                  | 0.12              | 1500          |
| PBY160808T-500□-N | 50                    | 0.04              | 3000          | PBY321611T-080□-N | 8                     | 0.015             | 6000          |
| PBY160808T-560□-N | 56                    | 0.04              | 3000          | PBY321611T-110□-N | 11                    | 0.015             | 6000          |
| PBY160808T-600□-N | 60                    | 0.04              | 3000          | PBY321611T-190□-N | 19                    | 0.015             | 6000          |
| PBY160808T-680□-N | 68                    | 0.05              | 2500          | PBY321611T-260□-N | 26                    | 0.015             | 6000          |
| PBY160808T-700□-N | 70                    | 0.05              | 2500          | PBY321611T-300□-N | 30                    | 0.015             | 4000          |
| PBY160808T-750□-N | 75                    | 0.05              | 2500          | PBY321611T-310□-N | 31                    | 0.015             | 4000          |
| PBY160808T-800□-N | 80                    | 0.05              | 2500          | PBY321611T-320□-N | 32                    | 0.015             | 4000          |
| PBY160808T-900□-N | 90                    | 0.05              | 2500          | PBY321611T-420□-N | 42                    | 0.015             | 4000          |
| PBY160808T-101□-N | 100                   | 0.05              | 2500          | PBY321611T-500□-N | 50                    | 0.02              | 4000          |
| PBY160808T-121□-N | 120                   | 0.08              | 2500          | PBY321611T-600□-N | 60                    | 0.02              | 4000          |
| PBY160808T-151□-N | 150                   | 0.085             | 2000          | PBY321611T-680□-N | 68                    | 0.02              | 4000          |
| PBY160808T-181□-N | 180                   | 0.09              | 2000          | PBY321611T-700□-N | 70                    | 0.02              | 4000          |
| PBY160808T-201□-N | 200                   | 0.095             | 2000          | PBY321611T-800□-N | 80                    | 0.025             | 3000          |
| PBY160808T-221□-N | 220                   | 0.1               | 2000          | PBY321611T-900□-N | 90                    | 0.03              | 3000          |
| PBY160808T-301□-N | 300                   | 0.12              | 1500          | PBY321611T-101□-N | 100                   | 0.03              | 2000          |
| PBY160808T-331□-N | 330                   | 0.12              | 1500          | PBY321611T-121□-N | 120                   | 0.03              | 2000          |
| PBY160808T-401□-N | 400                   | 0.12              | 1500          | PBY321611T-151□-N | 150                   | 0.04              | 2000          |
| PBY160808T-471□-N | 470                   | 0.12              | 1500          | PBY321611T-201□-N | 200                   | 0.05              | 2000          |
| PBY160808T-501□-N | 500                   | 0.15              | 1200          | PBY321611T-221□-N | 220                   | 0.05              | 2000          |
| PBY160808T-601□-N | 600                   | 0.2               | 1000          | PBY321611T-301□-N | 300                   | 0.06              | 2000          |
| PBY160808T-102□-N | 1000                  | 0.25              | 800           | PBY321611T-401□-N | 400                   | 0.1               | 2000          |
| PBY201209T-070□-N | 7                     | 0.01              | 6000          | PBY321611T-501□-N | 500                   | 0.1               | 2000          |
| PBY201209T-110□-N | 11                    | 0.01              | 6000          | PBY321611T-601□-N | 600                   | 0.1               | 2000          |
| PBY201209T-170□-N | 17                    | 0.02              | 5000          | PBY321611T-102□-N | 1000                  | 0.15              | 1200          |
| PBY201209T-190□-N | 19                    | 0.02              | 4000          | PBY321611T-122□-N | 1200                  | 0.18              | 1000          |
| PBY201209T-220□-N | 22                    | 0.02              | 4000          | PBY321611T-152□-N | 1500                  | 0.2               | 800           |
| PBY201209T-280□-N | 28                    | 0.02              | 4000          | PBY322513T-600□-N | 60                    | 0.025             | 4000          |
| PBY201209T-300□-N | 30                    | 0.02              | 4000          | PBY322513T-900□-N | 90                    | 0.025             | 3000          |
| PBY201209T-310□-N | 31                    | 0.02              | 4000          | PBY451616T-190□-N | 19                    | 0.02              | 6000          |
| PBY201209T-390□-N | 39                    | 0.02              | 3000          | PBY451616T-400□-N | 40                    | 0.02              | 6000          |
| PBY201209T-400□-N | 40                    | 0.02              | 3000          | PBY451616T-500□-N | 50                    | 0.02              | 6000          |
| PBY201209T-420□-N | 42                    | 0.025             | 3000          | PBY451616T-600□-N | 60                    | 0.02              | 5000          |
| PBY201209T-500□-N | 50                    | 0.025             | 3000          | PBY451616T-700□-N | 70                    | 0.025             | 5000          |
| PBY201209T-600□-N | 60                    | 0.03              | 3000          | PBY451616T-750□-N | 75                    | 0.025             | 5000          |
| PBY201209T-700□-N | 70                    | 0.04              | 3000          | PBY451616T-800□-N | 80                    | 0.025             | 4000          |
| PBY201209T-750□-N | 75                    | 0.04              | 3000          | PBY451616T-101□-N | 100                   | 0.1               | 2000          |
| PBY201209T-800□-N | 80                    | 0.04              | 3000          | PBY451616T-151□-N | 150                   | 0.1               | 2000          |
| PBY201209T-900□-N | 90                    | 0.04              | 3000          | PBY451616T-191□-N | 190                   | 0.1               | 2000          |
| PBY201209T-101□-N | 100                   | 0.04              | 3000          | PBY451616T-601□-N | 600                   | 0.1               | 2000          |
| PBY201209T-121□-N | 120                   | 0.04              | 3000          | PBY451616T-102□-N | 1000                  | 0.1               | 2000          |



LEAD-FREE & ROHS COMPLIANCE

| PART NO.          | IMPEDANCE             | RDC               | RATED                |
|-------------------|-----------------------|-------------------|----------------------|
|                   | ( $\Omega \pm 25\%$ ) | ( $\Omega$ ) Max. | CURRENT<br>(mA) Max. |
| PBY451616T-132□-N | 1300                  | 0.1               | 2000                 |
| PBY453215T-700□-N | 70                    | 0.03              | 6000                 |
| PBY453215T-800□-N | 80                    | 0.03              | 4000                 |
| PBY453215T-900□-N | 90                    | 0.03              | 4000                 |
| PBY453215T-121□-N | 120                   | 0.03              | 4000                 |
| PBY453215T-125□-N | 125                   | 0.03              | 4000                 |
| PBY453215T-151□-N | 150                   | 0.03              | 4000                 |

## UPB SERIES, FOR ULTRA HIGH CURRENT USE

### APPLICATIONS

Preventing of Electronics Magnet Interference in Power Line of PC, Printer, & CD ROM  
High Frequency Filtering of Medium Speed Clocks and Video Signals

### FEATURES

High Current Performance  
Low D.C. Resistance Minute mΩ Typically  
Impedance Character of Broad Frequency

## ELECTRICAL CHARACTERISTICS

| PART NO.          | IMPEDANCE<br>at 100MHz ( $\Omega \pm 25\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|----------------------------------------------|------------------------------------|----------------------------|
| UPB160808T-110Y-S | 11                                           | 0.015                              | 4500                       |
| UPB160808T-170Y-S | 17                                           | 0.015                              | 4500                       |
| UPB160808T-250Y-S | 25                                           | 0.015                              | 4500                       |
| UPB160808T-300Y-S | 30                                           | 0.015                              | 4500                       |
| UPB201209T-110Y-S | 11                                           | 0.015                              | 5000                       |
| UPB201209T-150Y-S | 15                                           | 0.015                              | 5000                       |
| UPB201209T-190Y-S | 19                                           | 0.015                              | 5000                       |
| UPB201209T-260Y-S | 26                                           | 0.015                              | 5000                       |
| UPB201209T-300Y-S | 30                                           | 0.015                              | 5000                       |
| UPB201209T-330Y-S | 33                                           | 0.015                              | 5000                       |
| UPB201209T-400Y-S | 40                                           | 0.015                              | 5000                       |
| UPB201209T-500Y-S | 50                                           | 0.015                              | 5000                       |
| UPB201209T-600Y-S | 60                                           | 0.020                              | 4500                       |
| UPB201212T-600Y-S | 60                                           | 0.02                               | 5000                       |
| UPB201212T-700Y-S | 70                                           | 0.02                               | 5000                       |
| UPB201212T-800Y-S | 80                                           | 0.02                               | 5000                       |
| UPB201212T-101Y-S | 100                                          | 0.025                              | 5000                       |
| UPB201212T-121Y-S | 120                                          | 0.025                              | 5000                       |
| UPB321611T-110Y-S | 11                                           | 0.012                              | 6000                       |
| UPB321611T-190Y-S | 19                                           | 0.012                              | 6000                       |
| UPB321611T-260Y-S | 26                                           | 0.012                              | 6000                       |
| UPB321611T-300Y-S | 30                                           | 0.012                              | 6000                       |
| UPB321611T-400Y-S | 40                                           | 0.012                              | 6000                       |
| UPB321611T-500Y-S | 50                                           | 0.012                              | 6000                       |
| UPB321611T-600Y-S | 60                                           | 0.012                              | 6000                       |
| UPB321611T-800Y-S | 80                                           | 0.012                              | 6000                       |
| UPB321611T-101Y-S | 100                                          | 0.012                              | 6000                       |
| UPB321611T-121Y-S | 120                                          | 0.012                              | 6000                       |
| UPB321611T-151Y-S | 150                                          | 0.020                              | 4500                       |
| UPB321616T-600Y-S | 60                                           | 0.012                              | 6000                       |
| UPB323215T-700Y-S | 70                                           | 0.01                               | 9000                       |



## ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO.            | IMPEDANCE<br>at 100MHz ( $\Omega \pm 25\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|---------------------|----------------------------------------------|------------------------------------|----------------------------|
| UPB160808T-110 □ -N | 11                                           | 0.015                              | 4500                       |
| UPB160808T-170 □ -N | 17                                           | 0.015                              | 4500                       |
| UPB160808T-250 □ -N | 25                                           | 0.015                              | 4500                       |
| UPB160808T-300 □ -N | 30                                           | 0.015                              | 4500                       |
| UPB201209T-110 □ -N | 11                                           | 0.012                              | 5000                       |
| UPB201209T-150 □ -N | 15                                           | 0.012                              | 5000                       |
| UPB201209T-190 □ -N | 19                                           | 0.012                              | 5000                       |
| UPB201209T-260 □ -N | 26                                           | 0.012                              | 5000                       |
| UPB201209T-300 □ -N | 30                                           | 0.012                              | 5000                       |
| UPB201209T-330 □ -N | 33                                           | 0.012                              | 5000                       |
| UPB201209T-400 □ -N | 40                                           | 0.015                              | 5000                       |
| UPB201209T-500 □ -N | 50                                           | 0.015                              | 5000                       |
| UPB201209T-600 □ -N | 60                                           | 0.02                               | 4500                       |
| UPB201209T-700 □ -N | 70                                           | 0.02                               | 4500                       |
| UPB201209T-800 □ -N | 80                                           | 0.02                               | 4500                       |
| UPB201212T-600 □ -N | 60                                           | 0.02                               | 5000                       |
| UPB201212T-700 □ -N | 70                                           | 0.02                               | 5000                       |
| UPB201212T-800 □ -N | 80                                           | 0.02                               | 5000                       |
| UPB201212T-101 □ -N | 100                                          | 0.025                              | 5000                       |
| UPB201212T-121 □ -N | 120                                          | 0.025                              | 5000                       |
| UPB321611T-110 □ -N | 11                                           | 0.012                              | 6000                       |
| UPB321611T-190 □ -N | 19                                           | 0.012                              | 6000                       |
| UPB321611T-260 □ -N | 26                                           | 0.012                              | 6000                       |
| UPB321611T-300 □ -N | 30                                           | 0.012                              | 6000                       |
| UPB321611T-320 □ -N | 32                                           | 0.012                              | 6000                       |
| UPB321611T-400 □ -N | 40                                           | 0.012                              | 6000                       |
| UPB321611T-500 □ -N | 50                                           | 0.012                              | 6000                       |
| UPB321611T-600 □ -N | 60                                           | 0.012                              | 6000                       |
| UPB321611T-800 □ -N | 80                                           | 0.012                              | 6000                       |
| UPB321611T-101 □ -N | 100                                          | 0.012                              | 6000                       |
| UPB321611T-121 □ -N | 120                                          | 0.012                              | 6000                       |
| UPB321611T-151 □ -N | 150                                          | 0.02                               | 4500                       |
| UPB451616T-600 □ -N | 60                                           | 0.012                              | 7000                       |
| UPB453215T-700 □ -N | 70                                           | 0.01                               | 9000                       |
| UPB453215T-900 □ -N | 90                                           | 0.01                               | 9000                       |

NOTE : □ -tolerance Y= $\pm 25\%$  / T= $\pm 30\%$

1. Operating temperature range -55°C~125°C

2. Rate current: Applied the current to coils, the temperature rise shall not be more than 30°C

"-N" FOR COMPLETELY LEAD FREE TYPE (INCLUDING FERRITE BODY & SOLDER)





## NB SERIES, FOR HIGH SPEED SIGNALS USE

### APPLICATIONS

High-Speed Circuits for Computer & Peripheral Equipments and Communication Devices

Cellular Phone

Suitable for Circuits with Unstable Ground

### FEATURES

Exhibiting High Impedance with Sharp Increase at High-Speed Signal Frequencies with Minimal Diminishing the Desired Wave Form

Suitable for Flow and Reflow Soldering

Available in 4 Sizes

## ELECTRICAL CHARACTERISTICS

| PART NO.          | IMPEDANCE<br>at 100MHz ( $\Omega \pm 25\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|----------------------------------------------|------------------------------------|----------------------------|
| NBQ100505T-060Y-S | 6                                            | 0.10                               | 300                        |
| NBQ100505T-100Y-S | 10                                           | 0.20                               | 200                        |
| NBQ100505T-400Y-S | 40                                           | 0.40                               | 150                        |
| NBQ100505T-800Y-S | 80                                           | 0.60                               | 100                        |
| NBQ100505T-121Y-S | 120                                          | 0.80                               | 50                         |
| NBQ160808T-060Y-S | 6                                            | 0.05                               | 500                        |
| NBQ160808T-100Y-S | 10                                           | 0.07                               | 400                        |
| NBQ160808T-400Y-S | 40                                           | 0.30                               | 300                        |
| NBQ160808T-600Y-S | 60                                           | 0.30                               | 300                        |
| NBQ160808T-800Y-S | 80                                           | 0.40                               | 300                        |
| NBQ160808T-121Y-S | 120                                          | 0.40                               | 300                        |
| NBQ160808T-241Y-S | 240                                          | 0.40                               | 200                        |
| NBQ160808T-301Y-S | 300                                          | 0.50                               | 200                        |
| NBQ160808T-481Y-S | 480                                          | 0.60                               | 150                        |
| NBQ160808T-601Y-S | 600                                          | 0.60                               | 100                        |
| NBQ160808T-102Y-S | 1000                                         | 0.70                               | 100                        |
| NBQ160808T-122Y-S | 1200                                         | 0.70                               | 100                        |
| NBQ160808T-152Y-S | 1500                                         | 0.80                               | 100                        |
| NBQ160808T-182Y-S | 1800                                         | 0.95                               | 100                        |
| NBQ160808T-222Y-S | 2200                                         | 1.0                                | 50                         |
| NBQ160808T-252Y-S | 2500                                         | 1.0                                | 50                         |
| NBQ201209T-060Y-S | 6                                            | 0.07                               | 800                        |
| NBQ201209T-110Y-S | 11                                           | 0.10                               | 700                        |
| NBQ201209T-260Y-S | 26                                           | 0.15                               | 600                        |
| NBQ201209T-320Y-S | 32                                           | 0.15                               | 600                        |
| NBQ201209T-600Y-S | 60                                           | 0.15                               | 500                        |
| NBQ201209T-750Y-S | 75                                           | 0.15                               | 500                        |
| NBQ201209T-900Y-S | 90                                           | 0.15                               | 500                        |
| NBQ201209T-121Y-S | 120                                          | 0.20                               | 400                        |
| NBQ201209T-151Y-S | 150                                          | 0.20                               | 400                        |
| NBQ201209T-171Y-S | 170                                          | 0.30                               | 400                        |
| NBQ201209T-221Y-S | 220                                          | 0.30                               | 300                        |
| NBQ201209T-301Y-S | 300                                          | 0.30                               | 300                        |
| NBQ201209T-401Y-S | 400                                          | 0.35                               | 300                        |
| NBQ201209T-501Y-S | 500                                          | 0.35                               | 200                        |
| NBQ201209T-601Y-S | 600                                          | 0.35                               | 200                        |
| NBQ201209T-102Y-S | 1000                                         | 0.40                               | 200                        |
| NBQ201209T-122Y-S | 1200                                         | 0.45                               | 200                        |
| NBQ201209T-152Y-S | 1500                                         | 0.45                               | 200                        |
| NBQ201209T-222Y-S | 2200                                         | 0.50                               | 200                        |
| NBQ201209T-272Y-S | 2700                                         | 0.60                               | 200                        |
| NBQ321611T-320Y-S | 32                                           | 0.15                               | 600                        |
| NBQ321611T-600Y-S | 60                                           | 0.15                               | 500                        |
| NBQ321611T-800Y-S | 80                                           | 0.15                               | 500                        |
| NBQ321611T-900Y-S | 90                                           | 0.15                               | 500                        |
| NBQ321611T-121Y-S | 120                                          | 0.20                               | 400                        |
| NBQ321611T-151Y-S | 150                                          | 0.20                               | 400                        |
| NBQ321611T-201Y-S | 200                                          | 0.25                               | 300                        |
| NBQ321611T-221Y-S | 220                                          | 0.30                               | 300                        |
| NBQ321611T-351Y-S | 350                                          | 0.30                               | 300                        |
| NBQ321611T-401Y-S | 400                                          | 0.30                               | 300                        |
| NBQ321611T-601Y-S | 600                                          | 0.35                               | 300                        |
| NBQ321611T-122Y-S | 1200                                         | 0.40                               | 200                        |
| NBQ321611T-152Y-S | 1500                                         | 0.45                               | 200                        |



## ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO.            | IMPEDANCE<br>at 100MHz ( $\Omega \pm 25\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|---------------------|----------------------------------------------|------------------------------------|----------------------------|
| NBQ100505T-060 □ -N | 6                                            | 0.1                                | 300                        |
| NBQ100505T-100 □ -N | 10                                           | 0.2                                | 200                        |
| NBQ100505T-220 □ -N | 22                                           | 0.4                                | 150                        |
| NBQ100505T-400 □ -N | 40                                           | 0.4                                | 150                        |
| NBQ100505T-600 □ -N | 60                                           | 0.6                                | 100                        |
| NBQ100505T-800 □ -N | 80                                           | 0.6                                | 100                        |
| NBQ100505T-121 □ -N | 120                                          | 0.8                                | 50                         |
| NBQ100505T-221 □ -N | 220                                          | 1.4                                | 50                         |
| NBQ160808T-060 □ -N | 6                                            | 0.05                               | 500                        |
| NBQ160808T-100 □ -N | 10                                           | 0.07                               | 400                        |
| NBQ160808T-300 □ -N | 30                                           | 0.2                                | 300                        |
| NBQ160808T-400 □ -N | 40                                           | 0.2                                | 300                        |
| NBQ160808T-470 □ -N | 47                                           | 0.2                                | 300                        |
| NBQ160808T-500 □ -N | 50                                           | 0.25                               | 300                        |
| NBQ160808T-600 □ -N | 60                                           | 0.25                               | 300                        |
| NBQ160808T-680 □ -N | 68                                           | 0.25                               | 300                        |
| NBQ160808T-700 □ -N | 70                                           | 0.25                               | 300                        |
| NBQ160808T-750 □ -N | 75                                           | 0.25                               | 300                        |
| NBQ160808T-800 □ -N | 80                                           | 0.25                               | 300                        |
| NBQ160808T-101 □ -N | 100                                          | 0.3                                | 300                        |
| NBQ160808T-121 □ -N | 120                                          | 0.3                                | 300                        |
| NBQ160808T-131 □ -N | 130                                          | 0.3                                | 300                        |
| NBQ160808T-141 □ -N | 140                                          | 0.3                                | 300                        |
| NBQ160808T-151 □ -N | 150                                          | 0.3                                | 200                        |
| NBQ160808T-161 □ -N | 160                                          | 0.3                                | 200                        |
| NBQ160808T-221 □ -N | 220                                          | 0.35                               | 200                        |
| NBQ160808T-241 □ -N | 240                                          | 0.35                               | 200                        |
| NBQ160808T-301 □ -N | 300                                          | 0.4                                | 200                        |
| NBQ160808T-471 □ -N | 470                                          | 0.5                                | 200                        |
| NBQ160808T-481 □ -N | 480                                          | 0.5                                | 200                        |
| NBQ160808T-601 □ -N | 600                                          | 0.5                                | 200                        |
| NBQ160808T-102 □ -N | 1000                                         | 0.6                                | 100                        |
| NBQ160808T-122 □ -N | 1200                                         | 0.6                                | 100                        |
| NBQ160808T-152 □ -N | 1500                                         | 0.7                                | 100                        |
| NBQ160808T-182 □ -N | 1800                                         | 0.8                                | 100                        |
| NBQ160808T-222 □ -N | 2200                                         | 1                                  | 50                         |
| NBQ160808T-252 □ -N | 2500                                         | 1.5                                | 50                         |
| NBQ201209T-050 □ -N | 5                                            | 0.07                               | 800                        |
| NBQ201209T-060 □ -N | 6                                            | 0.07                               | 800                        |
| NBQ201209T-070 □ -N | 7                                            | 0.1                                | 700                        |
| NBQ201209T-110 □ -N | 11                                           | 0.1                                | 700                        |
| NBQ201209T-260 □ -N | 26                                           | 0.15                               | 600                        |
| NBQ201209T-300 □ -N | 30                                           | 0.15                               | 600                        |
| NBQ201209T-320 □ -N | 32                                           | 0.15                               | 600                        |
| NBQ201209T-400 □ -N | 40                                           | 0.15                               | 500                        |
| NBQ201209T-600 □ -N | 60                                           | 0.15                               | 500                        |
| NBQ201209T-750 □ -N | 75                                           | 0.15                               | 500                        |
| NBQ201209T-900 □ -N | 90                                           | 0.15                               | 500                        |
| NBQ201209T-101 □ -N | 100                                          | 0.2                                | 400                        |
| NBQ201209T-121 □ -N | 120                                          | 0.2                                | 400                        |
| NBQ201209T-151 □ -N | 150                                          | 0.2                                | 400                        |
| NBQ201209T-171 □ -N | 170                                          | 0.3                                | 400                        |



## ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO.            | IMPEDANCE<br>at 100MHz ( $\Omega \pm 25\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|---------------------|----------------------------------------------|------------------------------------|----------------------------|
| NBQ201209T-201 □ -N | 200                                          | 0.3                                | 300                        |
| NBQ201209T-221 □ -N | 220                                          | 0.3                                | 300                        |
| NBQ201209T-301 □ -N | 300                                          | 0.3                                | 300                        |
| NBQ201209T-401 □ -N | 400                                          | 0.3                                | 300                        |
| NBQ201209T-421 □ -N | 420                                          | 0.3                                | 300                        |
| NBQ201209T-501 □ -N | 500                                          | 0.35                               | 200                        |
| NBQ201209T-601 □ -N | 600                                          | 0.35                               | 200                        |
| NBQ201209T-751 □ -N | 750                                          | 0.4                                | 200                        |
| NBQ201209T-102 □ -N | 1000                                         | 0.4                                | 200                        |
| NBQ201209T-122 □ -N | 1200                                         | 0.45                               | 200                        |
| NBQ201209T-152 □ -N | 1500                                         | 0.45                               | 200                        |
| NBQ201209T-202 □ -N | 2000                                         | 0.5                                | 200                        |
| NBQ201209T-222 □ -N | 2200                                         | 0.5                                | 200                        |
| NBQ201209T-252 □ -N | 2500                                         | 0.6                                | 200                        |
| NBQ201209T-272 □ -N | 2700                                         | 0.6                                | 200                        |
| NBQ321611T-170 □ -N | 17                                           | 0.15                               | 600                        |
| NBQ321611T-190 □ -N | 19                                           | 0.15                               | 600                        |
| NBQ321611T-320 □ -N | 32                                           | 0.15                               | 600                        |
| NBQ321611T-600 □ -N | 60                                           | 0.15                               | 500                        |
| NBQ321611T-800 □ -N | 80                                           | 0.15                               | 500                        |
| NBQ321611T-900 □ -N | 90                                           | 0.15                               | 500                        |
| NBQ321611T-121 □ -N | 120                                          | 0.2                                | 400                        |
| NBQ321611T-151 □ -N | 150                                          | 0.2                                | 400                        |
| NBQ321611T-201 □ -N | 200                                          | 0.25                               | 300                        |
| NBQ321611T-221 □ -N | 220                                          | 0.3                                | 300                        |
| NBQ321611T-351 □ -N | 350                                          | 0.3                                | 300                        |
| NBQ321611T-401 □ -N | 400                                          | 0.3                                | 300                        |
| NBQ321611T-601 □ -N | 600                                          | 0.35                               | 300                        |
| NBQ321611T-122 □ -N | 1200                                         | 0.4                                | 200                        |
| NBQ321611T-152 □ -N | 1500                                         | 0.45                               | 200                        |

NOTE : □ -tolerance Y=±25% / T=±30%

1. Operating temperature range -55°C~125°C

2. Rate current: Applied the current to coils, the temperature rise shall not be more than 30°C

"-N" FOR COMPLETELY LEAD FREE TYPE (INCLUDING FERRITE BODY & SOLDER)



## GB SERIES, FOR MID CURRENT USE

### APPLICATIONS

\* Computers \* Modems \* CD-ROMs \* Hard Drives

\* Televisions \* Wireless Device

### FEATURES

This series exhibits a low DC resistance across a wide range of impedances.

Low DC resistance characteristics make the chip beads suitable for use on signal lines handling larger currents.

## ELECTRICAL CHARACTERISTICS

| PART NO.          | IMPEDANCE<br>at 100MHz<br>( $\Omega \pm 25\%$ ) | DC<br>RESISTANCE<br>( $\Omega$ ) Max. | RATED<br>CURRENT<br>(mA) Max. | PART NO.          | IMPEDANCE<br>at 100MHz<br>( $\Omega \pm 25\%$ ) | DC<br>RESISTANCE<br>( $\Omega$ ) Max. | RATED<br>CURRENT<br>(mA) Max. |
|-------------------|-------------------------------------------------|---------------------------------------|-------------------------------|-------------------|-------------------------------------------------|---------------------------------------|-------------------------------|
| GBK160808T-110Y-S | 11                                              | 0.03                                  | 1000                          | GBY321611T-190Y-S | 19                                              | 0.03                                  | 1000                          |
| GBK160808T-190Y-S | 19                                              | 0.05                                  | 1000                          | GBY321611T-260Y-S | 26                                              | 0.03                                  | 1000                          |
| GBK160808T-300Y-S | 30                                              | 0.06                                  | 800                           | GBY321611T-320Y-S | 32                                              | 0.03                                  | 1000                          |
| GBK160808T-400Y-S | 40                                              | 0.06                                  | 800                           | GBY321611T-500Y-S | 50                                              | 0.06                                  | 800                           |
| GBK160808T-600Y-S | 60                                              | 0.06                                  | 600                           | GBY321611T-600Y-S | 60                                              | 0.06                                  | 800                           |
| GBK160808T-800Y-S | 80                                              | 0.10                                  | 600                           | GBK321611T-700Y-S | 70                                              | 0.06                                  | 800                           |
| GBK160808T-121Y-S | 120                                             | 0.15                                  | 600                           | GBK321611T-900Y-S | 90                                              | 0.10                                  | 800                           |
| GBK160808T-221Y-S | 220                                             | 0.18                                  | 400                           | GBK321611T-121Y-S | 120                                             | 0.10                                  | 800                           |
| GBK160808T-301Y-S | 300                                             | 0.25                                  | 400                           | GBK321611T-151Y-S | 150                                             | 0.10                                  | 800                           |
| GBK160808T-451Y-S | 450                                             | 0.30                                  | 400                           | GBK321611T-201Y-S | 200                                             | 0.15                                  | 600                           |
| GBK160808T-601Y-S | 600                                             | 0.30                                  | 400                           | GBK321611T-401Y-S | 400                                             | 0.15                                  | 600                           |
| GBK160808T-751Y-S | 750                                             | 0.45                                  | 300                           | GBK321611T-501Y-S | 500                                             | 0.15                                  | 600                           |
| GBK160808T-102Y-S | 1000                                            | 0.45                                  | 300                           | GBK321611T-601Y-S | 600                                             | 0.20                                  | 500                           |
| GBY201209T-070Y-S | 7                                               | 0.06                                  | 1000                          | GBK321611T-102Y-S | 1000 *                                          | 0.25                                  | 400                           |
| GBY201209T-090Y-S | 9                                               | 0.06                                  | 1000                          | GBK321611T-122Y-S | 1200 *                                          | 0.25                                  | 400                           |
| GBY201209T-110Y-S | 11                                              | 0.06                                  | 1000                          | GBK321611T-202Y-S | 2000 **                                         | 0.35                                  | 400                           |
| GBY201209T-170Y-S | 17                                              | 0.06                                  | 1000                          | GBY321616T-250Y-S | 25                                              | 0.10                                  | 1000                          |
| GBY201209T-320Y-S | 32                                              | 0.06                                  | 1000                          | GBY321616T-600Y-S | 60                                              | 0.10                                  | 1000                          |
| GBK201209T-600Y-S | 60                                              | 0.10                                  | 800                           | GBK321616T-700Y-S | 70                                              | 0.10                                  | 1000                          |
| GBK201209T-700Y-S | 70                                              | 0.10                                  | 800                           | GBY322513T-320Y-S | 32                                              | 0.10                                  | 1000                          |
| GBK201209T-800Y-S | 80                                              | 0.10                                  | 800                           | GBY322513T-600Y-S | 60                                              | 0.10                                  | 1000                          |
| GBK201209T-121Y-S | 120                                             | 0.15                                  | 600                           | GBY322513T-900Y-S | 90                                              | 0.10                                  | 1000                          |
| GBK201209T-151Y-S | 150                                             | 0.15                                  | 600                           | GBY451616T-500Y-S | 50                                              | 0.10                                  | 1000                          |
| GBK201209T-221Y-S | 220                                             | 0.18                                  | 600                           | GBY451616T-600Y-S | 60                                              | 0.10                                  | 1000                          |
| GBK201209T-301Y-S | 300                                             | 0.18                                  | 600                           | GBY451616T-800Y-S | 80                                              | 0.10                                  | 1000                          |
| GBK201209T-401Y-S | 400                                             | 0.18                                  | 600                           | GBY451616T-101Y-S | 100                                             | 0.18                                  | 800                           |
| GBK201209T-501Y-S | 500                                             | 0.25                                  | 500                           | GBK451616T-151Y-S | 150                                             | 0.18                                  | 800                           |
| GBK201209T-601Y-S | 600                                             | 0.25                                  | 500                           | GBK451616T-171Y-S | 170                                             | 0.18                                  | 800                           |
| GBK201209T-751Y-S | 750                                             | 0.30                                  | 400                           | GBY453215T-700Y-S | 70                                              | 0.18                                  | 800                           |
| GBK201209T-102Y-S | 1000                                            | 0.30                                  | 400                           | GBY453215T-121Y-S | 120                                             | 0.18                                  | 800                           |
| GBK201209T-152Y-S | 1500                                            | 0.40                                  | 400                           |                   |                                                 |                                       |                               |
| GBK201209T-202Y-S | 2000                                            | 0.55                                  | 400                           |                   |                                                 |                                       |                               |

Note : \* at 50MHz \*\* at 30MHz



## ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO.            | IMPEDANCE<br>at 100MHz ( $\Omega \pm 25\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|---------------------|----------------------------------------------|------------------------------------|----------------------------|
| GBK160808T-110 □ -N | 11                                           | 0.03                               | 1000                       |
| GBK160808T-190 □ -N | 19                                           | 0.05                               | 1000                       |
| GBK160808T-300 □ -N | 30                                           | 0.06                               | 800                        |
| GBK160808T-320 □ -N | 32                                           | 0.06                               | 800                        |
| GBK160808T-400 □ -N | 40                                           | 0.06                               | 800                        |
| GBK160808T-500 □ -N | 50                                           | 0.06                               | 600                        |
| GBK160808T-600 □ -N | 60                                           | 0.06                               | 600                        |
| GBK160808T-800 □ -N | 80                                           | 0.1                                | 600                        |
| GBK160808T-101 □ -N | 100                                          | 0.15                               | 600                        |
| GBK160808T-121 □ -N | 120                                          | 0.15                               | 600                        |
| GBK160808T-181 □ -N | 180                                          | 0.18                               | 400                        |
| GBK160808T-221 □ -N | 220                                          | 0.18                               | 400                        |
| GBK160808T-301 □ -N | 300                                          | 0.25                               | 400                        |
| GBK160808T-451 □ -N | 450                                          | 0.3                                | 400                        |
| GBK160808T-471 □ -N | 470                                          | 0.3                                | 400                        |
| GBK160808T-601 □ -N | 600                                          | 0.3                                | 400                        |
| GBK160808T-751 □ -N | 750                                          | 0.45                               | 300                        |
| GBK160808T-102 □ -N | 1000                                         | 0.45                               | 300                        |
| GBK160808T-152 □ -N | 1500                                         | 0.7                                | 150                        |
| GBY201209T-070 □ -N | 7                                            | 0.06                               | 1000                       |
| GBY201209T-090 □ -N | 9                                            | 0.06                               | 1000                       |
| GBY201209T-110 □ -N | 11                                           | 0.06                               | 1000                       |
| GBY201209T-170 □ -N | 17                                           | 0.06                               | 1000                       |
| GBY201209T-300 □ -N | 30                                           | 0.06                               | 1000                       |
| GBY201209T-320 □ -N | 32                                           | 0.06                               | 1000                       |
| GBY201209T-330 □ -N | 33                                           | 0.1                                | 800                        |
| GBY201209T-400 □ -N | 40                                           | 0.1                                | 800                        |
| GBK201209T-600 □ -N | 60                                           | 0.1                                | 800                        |
| GBK201209T-700 □ -N | 70                                           | 0.1                                | 800                        |
| GBK201209T-800 □ -N | 80                                           | 0.1                                | 800                        |
| GBK201209T-101 □ -N | 100                                          | 0.15                               | 600                        |
| GBK201209T-121 □ -N | 120                                          | 0.15                               | 600                        |
| GBK201209T-151 □ -N | 150                                          | 0.15                               | 600                        |
| GBK201209T-221 □ -N | 220                                          | 0.18                               | 600                        |
| GBK201209T-301 □ -N | 300                                          | 0.18                               | 600                        |



## ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

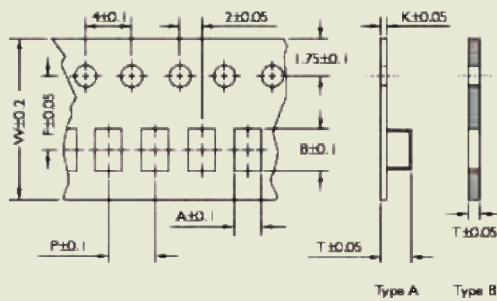
| PART NO.            | IMPEDANCE<br>at 100MHz ( $\Omega \pm 25\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|---------------------|----------------------------------------------|------------------------------------|----------------------------|
| GBK201209T-401 □ -N | 400                                          | 0.18                               | 600                        |
| GBK201209T-501 □ -N | 500                                          | 0.25                               | 500                        |
| GBK201209T-601 □ -N | 600                                          | 0.25                               | 500                        |
| GBK201209T-751 □ -N | 750                                          | 0.3                                | 400                        |
| GBK201209T-102 □ -N | 1000                                         | 0.3                                | 400                        |
| GBK201209T-152 □ -N | 1500                                         | 0.4                                | 400                        |
| GBK201209T-202 □ -N | 2000                                         | 0.55                               | 400                        |
| GBY321611T-190 □ -N | 19                                           | 0.03                               | 1000                       |
| GBY321611T-260 □ -N | 26                                           | 0.03                               | 1000                       |
| GBY321611T-320 □ -N | 32                                           | 0.03                               | 1000                       |
| GBY321611T-500 □ -N | 50                                           | 0.06                               | 800                        |
| GBY321611T-600 □ -N | 60                                           | 0.06                               | 800                        |
| GBK321611T-700 □ -N | 70                                           | 0.06                               | 800                        |
| GBK321611T-900 □ -N | 90                                           | 0.1                                | 800                        |
| GBK321611T-121 □ -N | 120                                          | 0.1                                | 800                        |
| GBK321611T-151 □ -N | 150                                          | 0.1                                | 800                        |
| GBK321611T-201 □ -N | 200                                          | 0.15                               | 600                        |
| GBK321611T-301 □ -N | 300                                          | 0.15                               | 600                        |
| GBK321611T-401 □ -N | 400                                          | 0.15                               | 600                        |
| GBK321611T-501 □ -N | 500                                          | 0.15                               | 600                        |
| GBK321611T-601 □ -N | 600                                          | 0.2                                | 500                        |
| GBK321611T-102 □ -N | 1000                                         | 0.25                               | 400                        |
| GBK321611T-122 □ -N | 1200                                         | 0.25                               | 400                        |
| GBK321611T-202 □ -N | 2000                                         | 0.35                               | 400                        |
| GBY321611T-250 □ -N | 25                                           | 0.1                                | 1000                       |
| GBY321611T-600 □ -N | 60                                           | 0.1                                | 1000                       |
| GBK321611T-700 □ -N | 70                                           | 0.1                                | 1000                       |
| GBY322513T-320 □ -N | 32                                           | 0.1                                | 1000                       |
| GBY322513T-600 □ -N | 60                                           | 0.1                                | 1000                       |
| GBY322513T-900 □ -N | 90                                           | 0.1                                | 1000                       |
| GBY451616T-500 □ -N | 50                                           | 0.1                                | 1000                       |
| GBY451616T-600 □ -N | 60                                           | 0.1                                | 1000                       |
| GBY451616T-800 □ -N | 80                                           | 0.1                                | 1000                       |
| GBY451616T-101 □ -N | 100                                          | 0.18                               | 800                        |



## ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO.            | IMPEDANCE<br>at 100MHz ( $\Omega \pm 25\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|---------------------|----------------------------------------------|------------------------------------|----------------------------|
| GBK451616T-151 □ -N | 150                                          | 0.18                               | 800                        |
| GBK451616T-171 □ -N | 170                                          | 0.18                               | 800                        |
| GBY453215T-700 □ -N | 70                                           | 0.18                               | 800                        |
| GBY453215T-121 □ -N | 120                                          | 0.18                               | 800                        |

Dimensions : mm

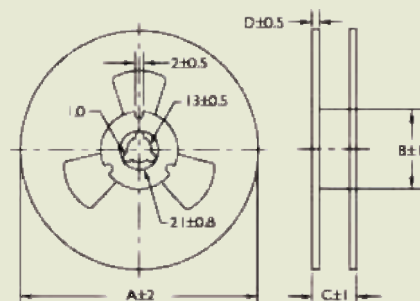


| TYPE           |        | A    | B    | T    | W    | P   | F   | K    | TAPE<br>TYPE |
|----------------|--------|------|------|------|------|-----|-----|------|--------------|
| SB/PB/NB       | 100505 | 0.65 | 1.15 | 0.60 | 8.0  | 2.0 | 3.5 | -    | B            |
| SB/PB/UP/NB/GB | 160808 | 1.10 | 1.85 | 0.95 | 8.0  | 4.0 | 3.5 | -    | B            |
| SB/PB/UP/NB/GB | 201209 | 1.42 | 2.25 | 0.22 | 8.0  | 4.0 | 3.5 | 1.04 | A            |
| SB/PB/UP/NB/GB | 321611 | 1.88 | 3.50 | 0.22 | 8.0  | 4.0 | 3.5 | 1.27 | A            |
| SB/GB          | 321616 | 1.88 | 3.53 | 0.22 | 8.0  | 4.0 | 3.5 | 1.80 | A            |
| SB/GB          | 322513 | 2.77 | 3.42 | 0.22 | 8.0  | 4.0 | 3.5 | 1.55 | A            |
| SB/PB/GB       | 451616 | 1.93 | 4.95 | 0.24 | 12.0 | 4.0 | 5.5 | 1.93 | A            |
| SB/PB/GB       | 453215 | 3.66 | 4.95 | 0.24 | 12.0 | 8.0 | 5.5 | 1.85 | A            |

The diagram illustrates a multi-chip tape layout. It shows a sequence of components along a tape: a blank tape section (140mm Min.), a blank part, a chip mounting part, a chip, another chip mounting part, another blank part, and a final blank section (330mm Min.). The tape is labeled 'Cover Tape' and 'Leader'.

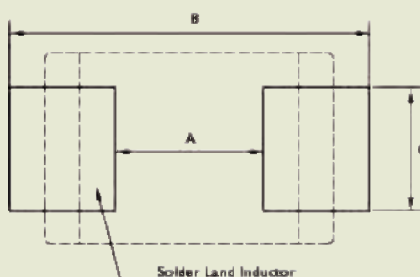
| TYPE           |        | BULK | QUANTITY/REEL |
|----------------|--------|------|---------------|
| SB/PB/NB       | 100505 | √    | 10000         |
| SB/PB/UP/NB/GB | 160808 | √    | 4000          |
| SB/PB/UP/NB/GB | 201209 | √    | 4000          |
| SB/PB/UP/NB/GB | 321611 | √    | 3000          |
| SB/GB          | 321616 | √    | 2000          |
| SB/GB          | 322513 | √    | 2500          |
| SB/PB/GB       | 451616 | √    | 2000          |
| SB/PB/GB       | 453215 | √    | 1000          |

Dimensions : mm



| TYPE           |        | A   | B  | C  | D |
|----------------|--------|-----|----|----|---|
| SB/PB/NB       | 100505 | 178 | 60 | 10 | 2 |
| SB/PB/UP/NB/GB | 160808 | 178 | 60 | 10 | 2 |
| SB/PB/UP/NB/GB | 201209 | 178 | 60 | 10 | 2 |
| SB/PB/UP/NB/GB | 321611 | 178 | 60 | 10 | 2 |
| SB/GB          | 321616 | 178 | 60 | 10 | 2 |
| SB/GB          | 322513 | 178 | 60 | 10 | 2 |
| SB/PB/GB       | 451616 | 178 | 60 | 14 | 2 |
| SB/PB/GB       | 453215 | 178 | 60 | 14 | 2 |

Dimensions : mm



\* Don't apply narrower pattern than listed above to PBY and upb  
Narrow pattern might cause excessive heat or open circuit.

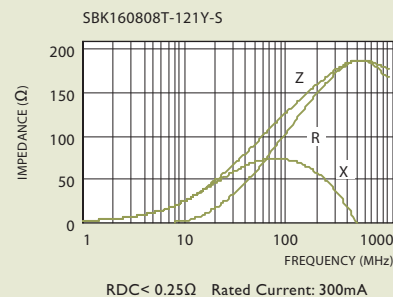
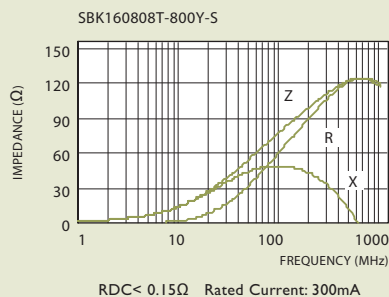
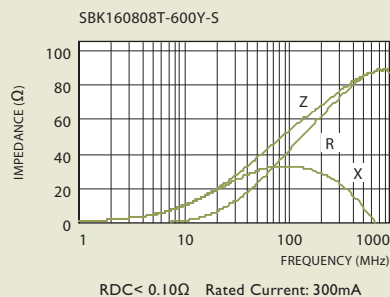
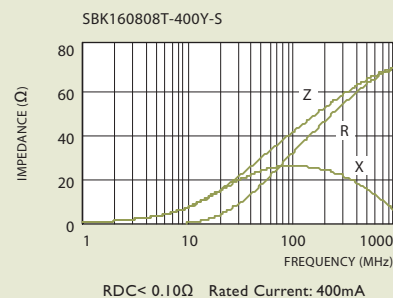
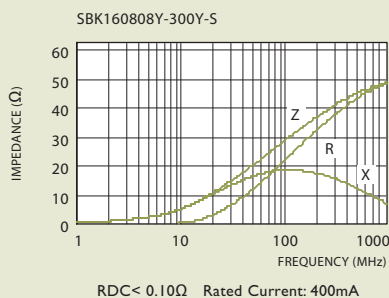
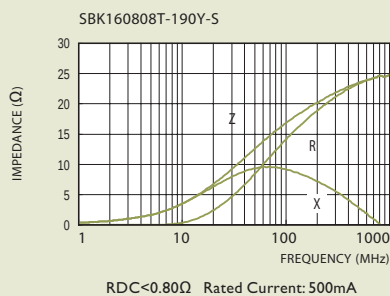
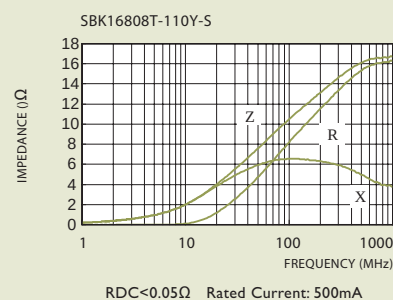
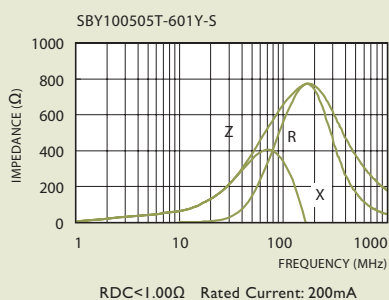
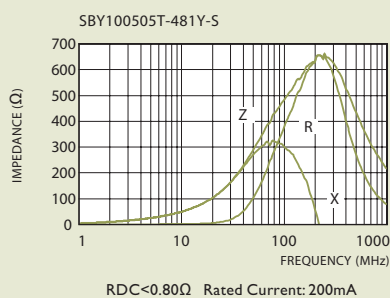
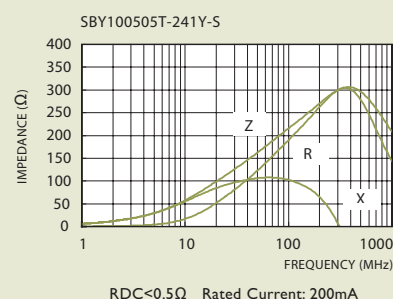
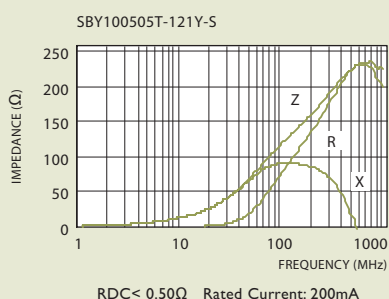
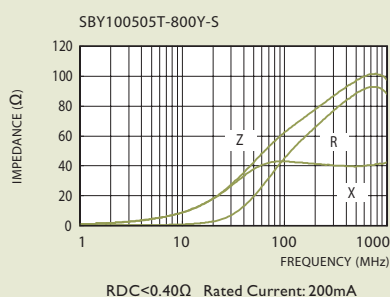
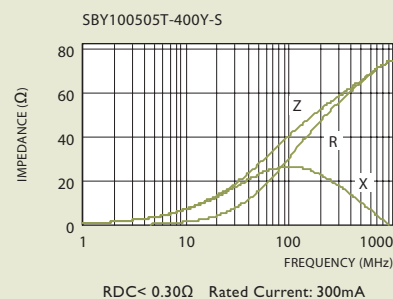
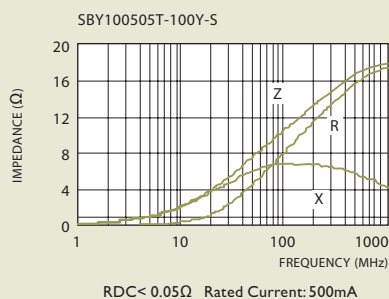
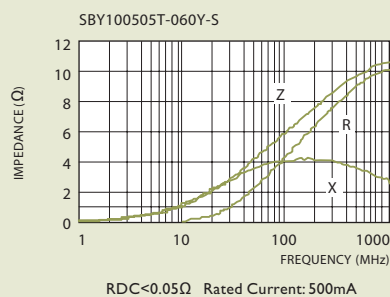
| TYPE           |        | A   | B         | C   |
|----------------|--------|-----|-----------|-----|
| SB/PB/NB       | 100505 | 0.4 | 1.2 ~ 1.4 | 0.4 |
| SB/PB/UP/NB/GB | 160808 | 0.8 | 2.4 ~ 3.4 | 0.6 |
| SB/PB/UP/NB/GB | 201209 | 1.2 | 3.0 ~ 4.0 | 1.0 |
| SB/PB/UP/NB/GB | 321611 | 2.0 | 4.2 ~ 5.2 | 1.2 |
| SB/GB          | 321616 | 2.0 | 4.2 ~ 5.2 | 1.2 |
| SB/GB          | 322513 | 2.0 | 5.5 ~ 6.5 | 1.8 |
| SB/PB/GB       | 451616 | 3.0 | 5.5 ~ 6.5 | 1.2 |
| SB/PB/GB       | 453215 | 3.0 | 5.5 ~ 6.5 | 2.4 |





## TYPICAL ELECTRICAL CHARACTERISTICS

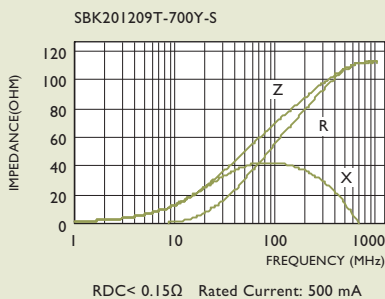
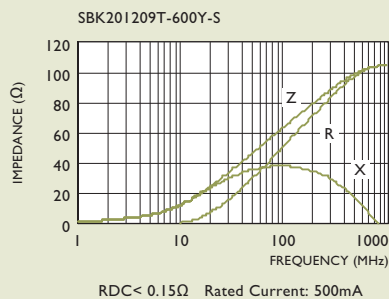
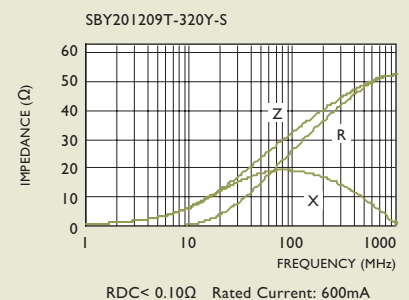
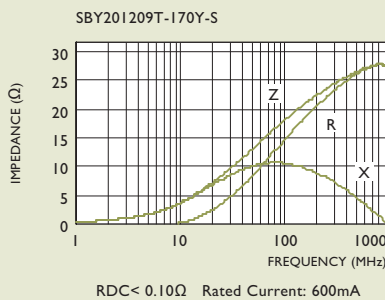
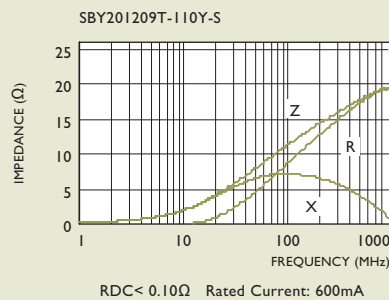
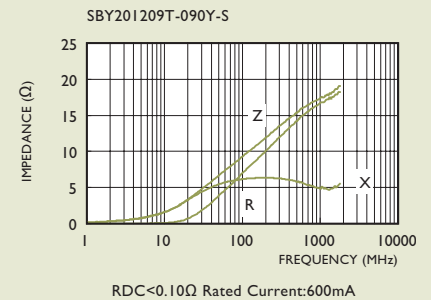
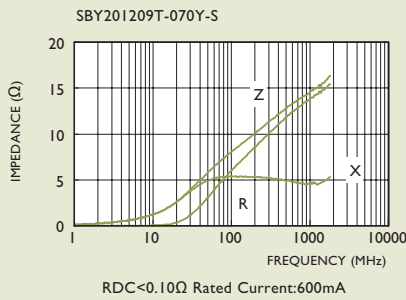
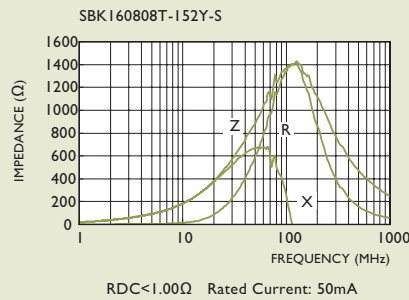
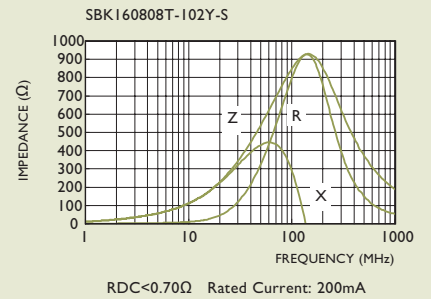
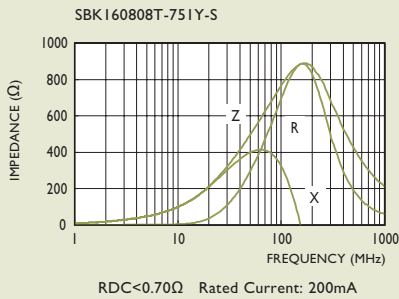
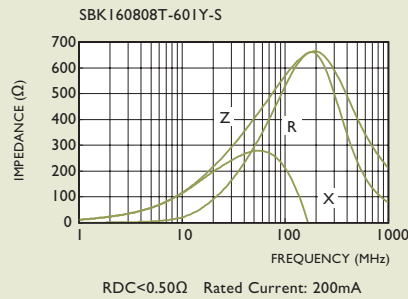
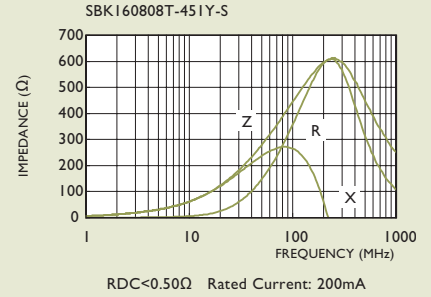
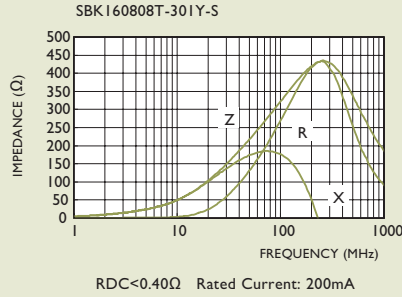
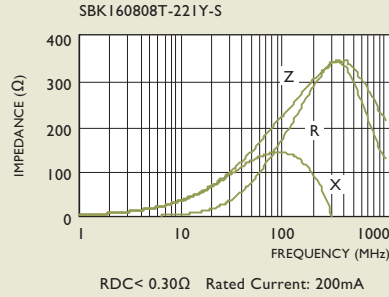
Test Instruments : HP4291A Impedance / Material Analyzer





## TYPICAL ELECTRICAL CHARACTERISTICS

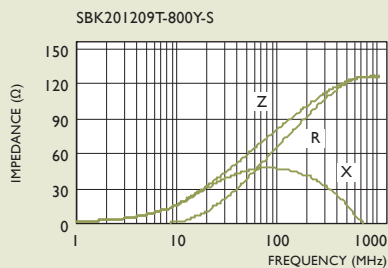
Test Instruments : HP4291A Impedance / Material Analyzer



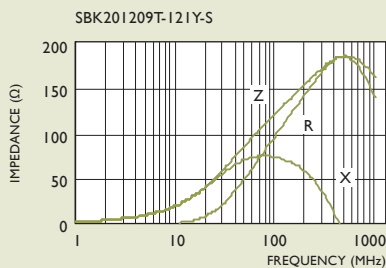


## TYPICAL ELECTRICAL CHARACTERISTICS

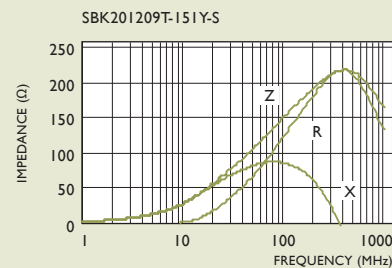
Test Instruments : HP4291A Impedance / Material Analyzer



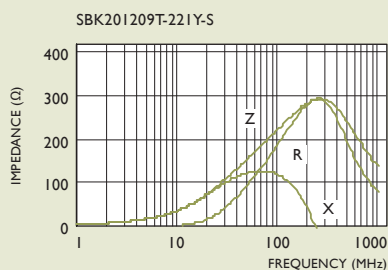
RDC < 0.15Ω Rated Current: 500mA



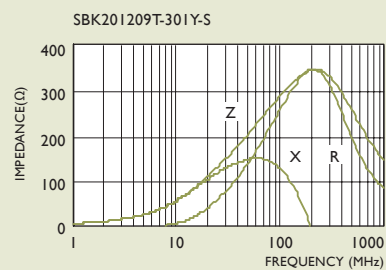
RDC < 0.25Ω Rated Current: 300mA



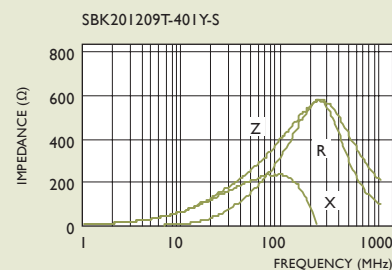
RDC < 0.25Ω Rated Current: 300mA



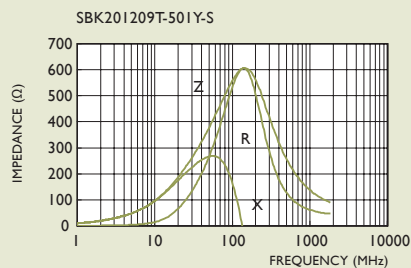
RDC < 0.30 Ω Rated Current: 300mA



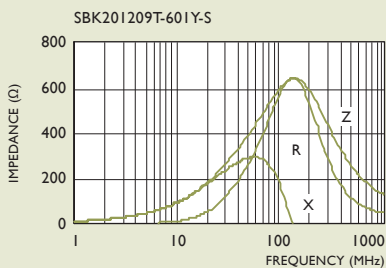
RDC < 0.30 Ω Rated Current: 300mA



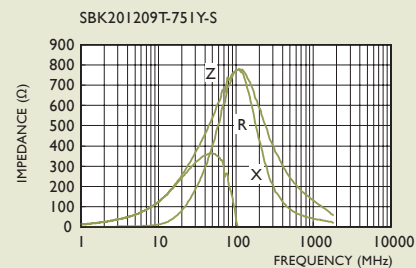
RDC < 0.30 Ω Rated Current: 300mA



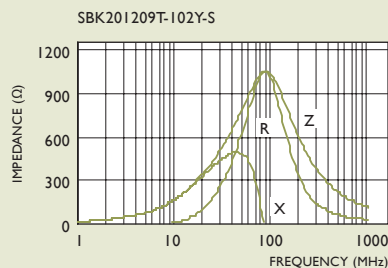
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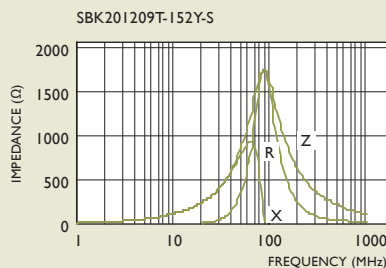
RDC < 0.40 Ω Rated Current: 300mA



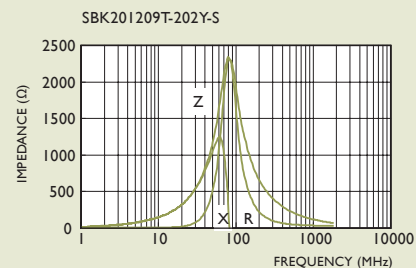
RDC < 0.50 Ω Rated Current: 200mA



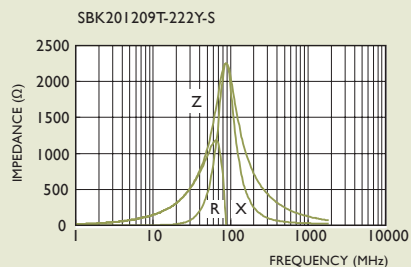
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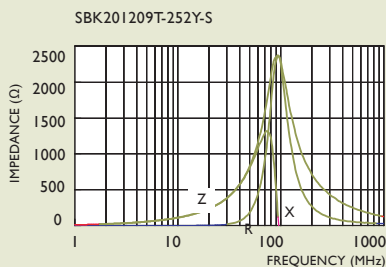
RDC < 0.60Ω Rated Current: 200mA



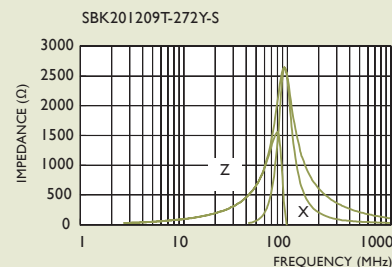
RDC < 0.80 Ω Rated Current: 100mA



RDC < 1.00 Ω Rated Current: 100mA



RDC < 1.00Ω Rated Current: 600mA

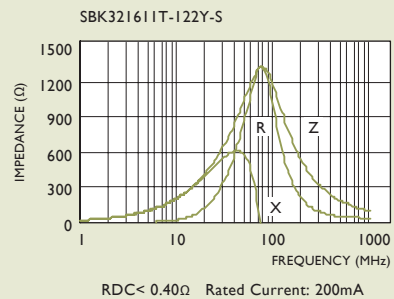
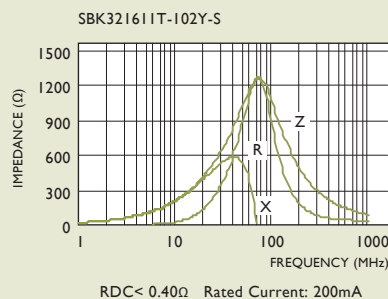
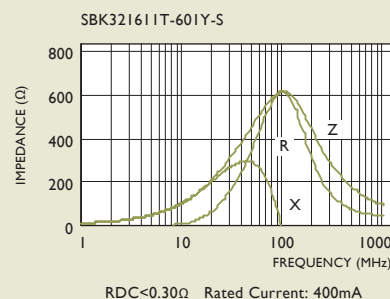
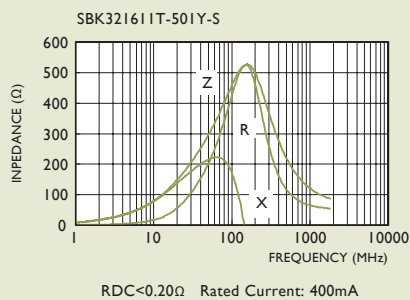
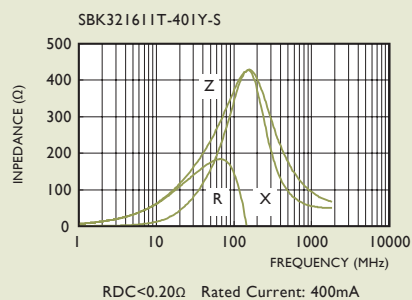
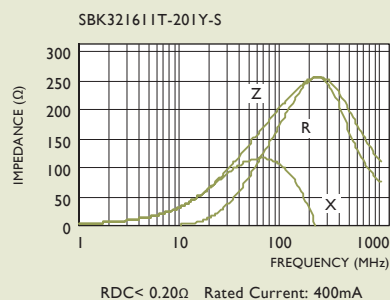
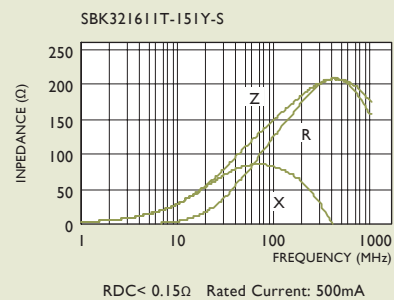
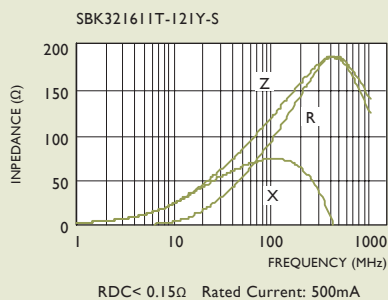
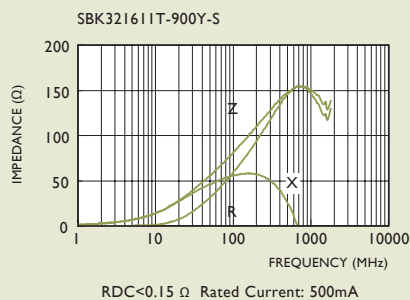
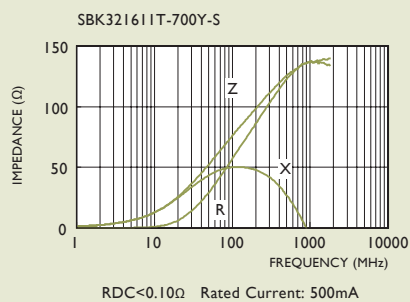
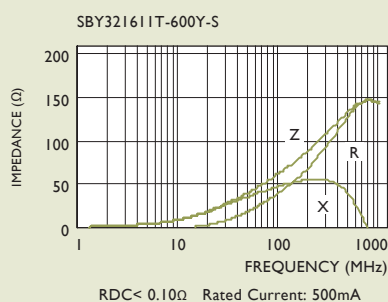
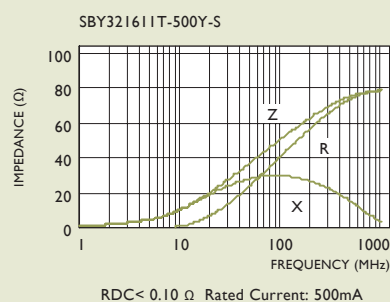
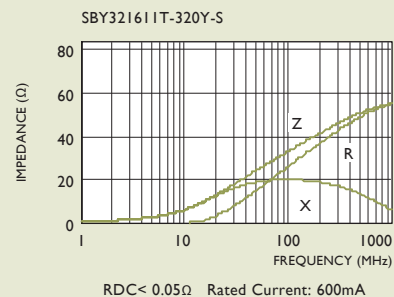
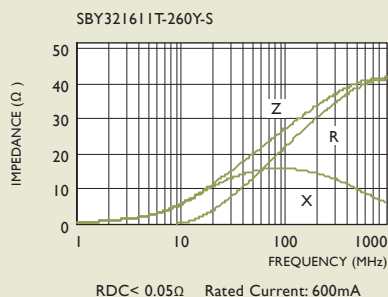
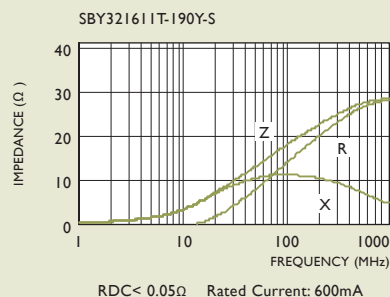


RDC < 1.50 Ω Rated Current: 600mA



## TYPICAL ELECTRICAL CHARACTERISTICS

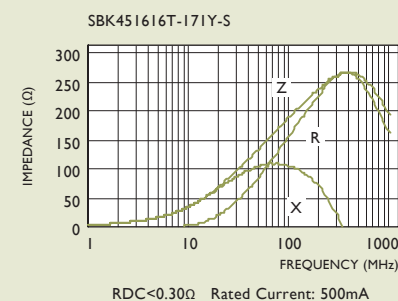
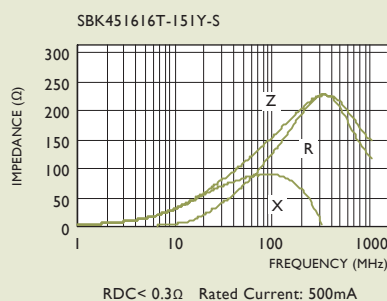
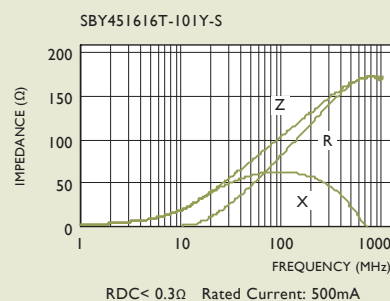
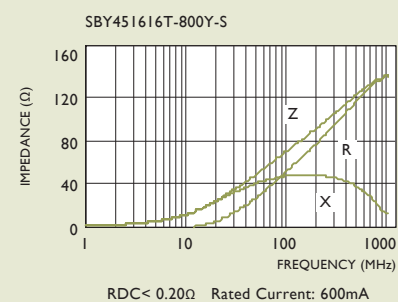
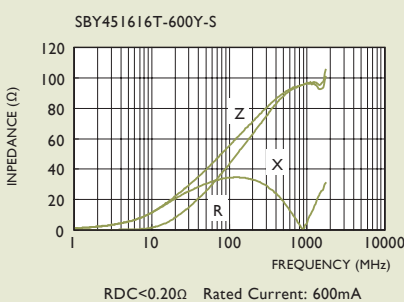
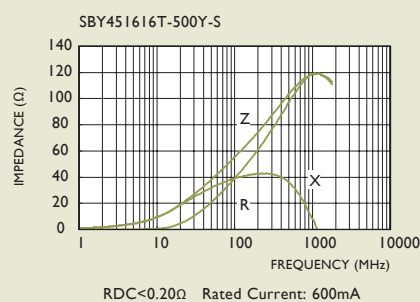
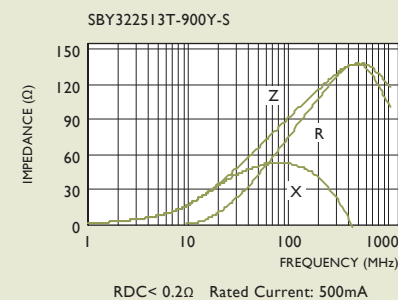
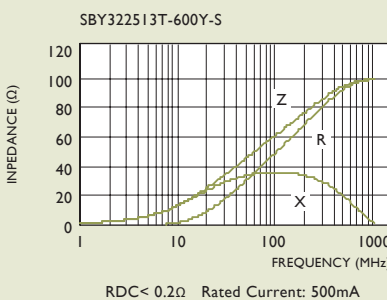
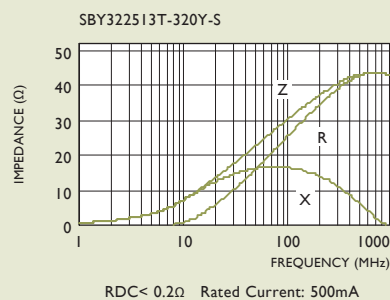
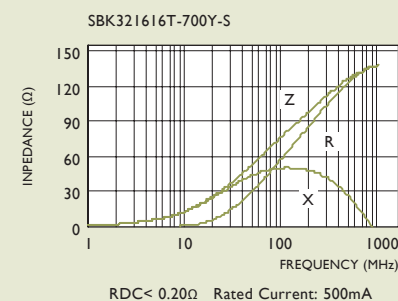
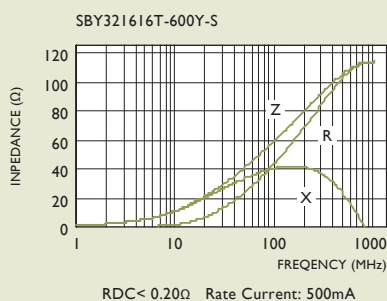
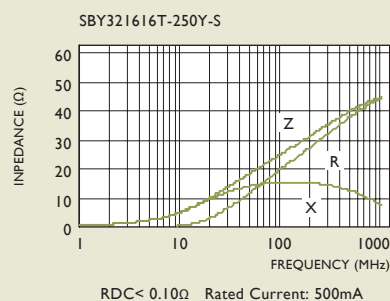
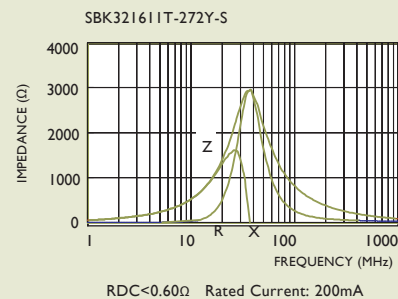
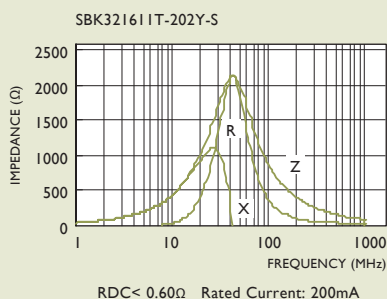
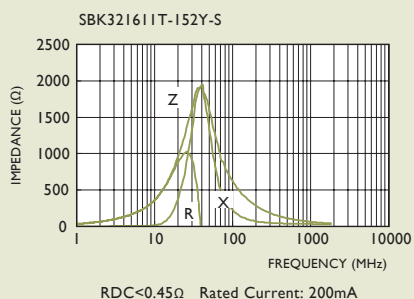
Test Instruments : HP4291A Impedance / Material Analyzer





## TYPICAL ELECTRICAL CHARACTERISTICS

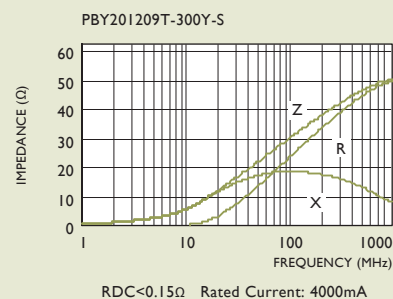
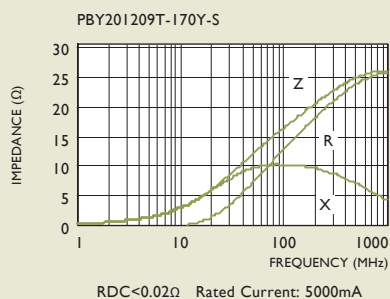
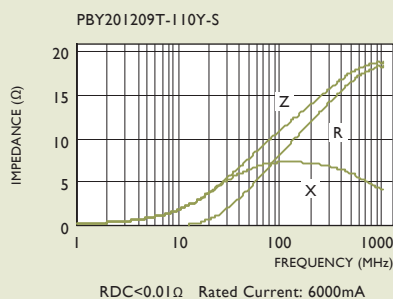
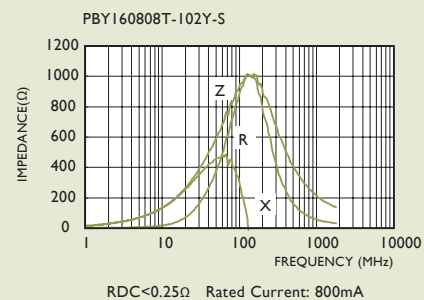
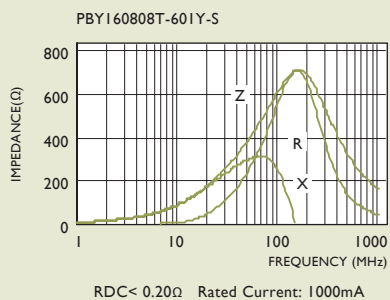
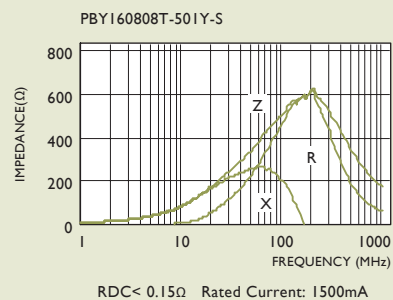
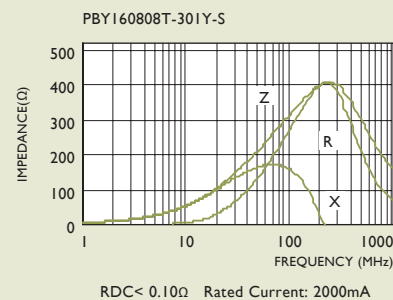
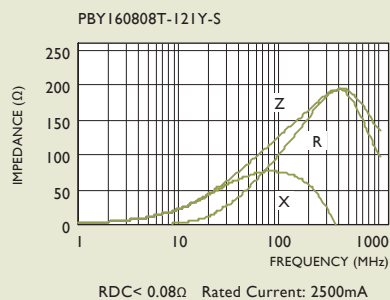
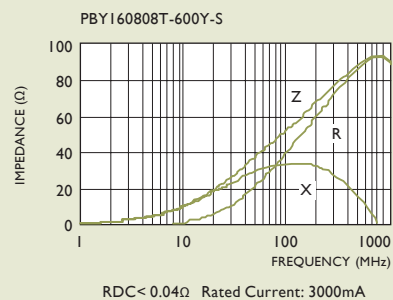
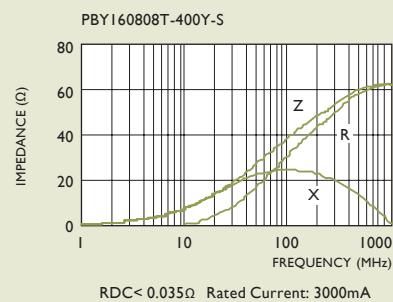
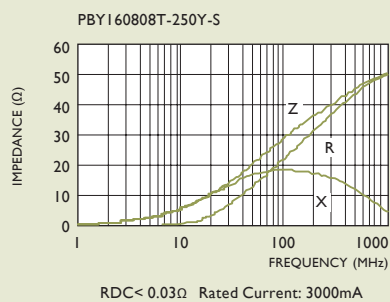
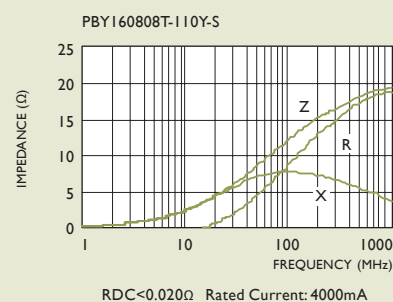
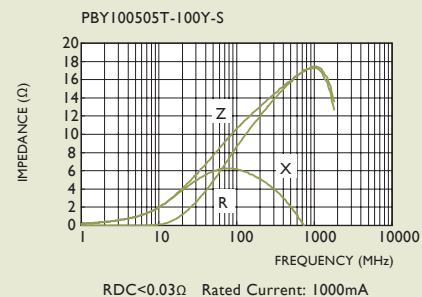
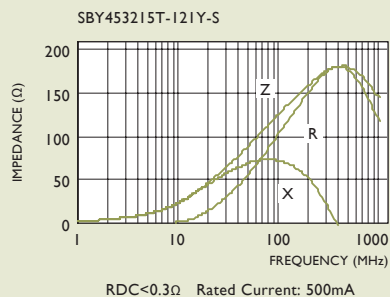
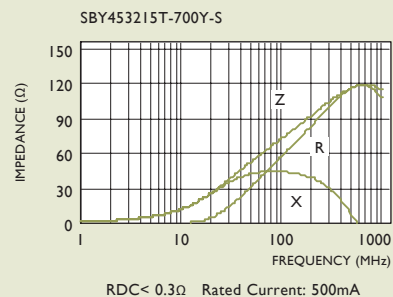
Test Instruments : HP4291A Impedance / Material Analyzer





## TYPICAL ELECTRICAL CHARACTERISTICS

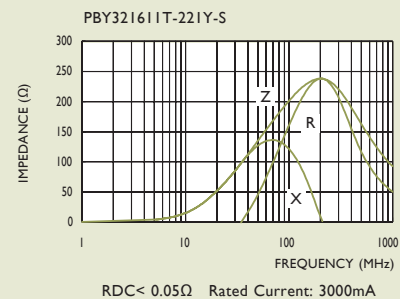
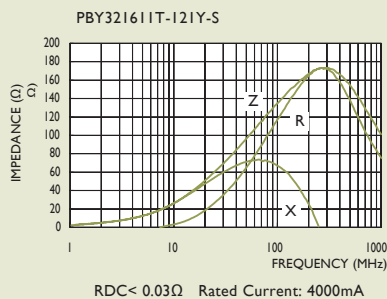
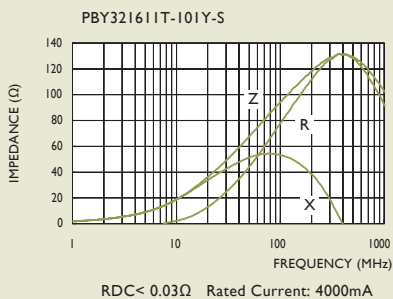
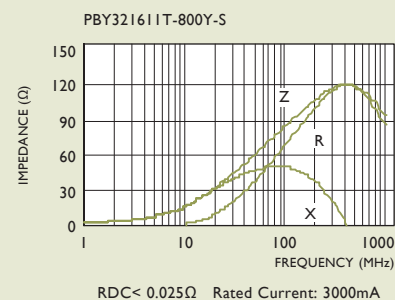
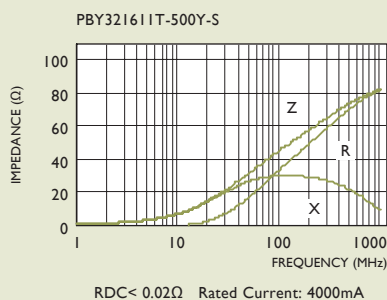
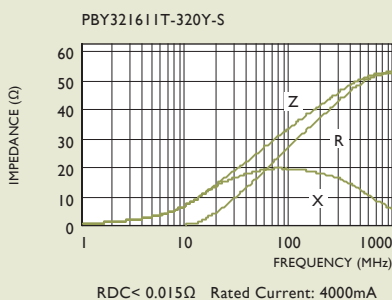
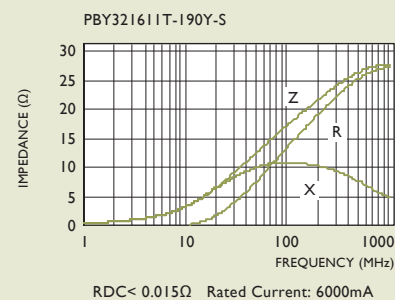
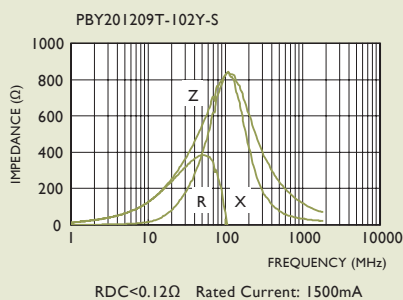
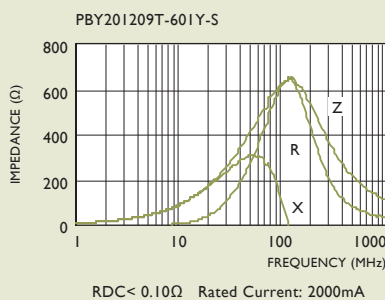
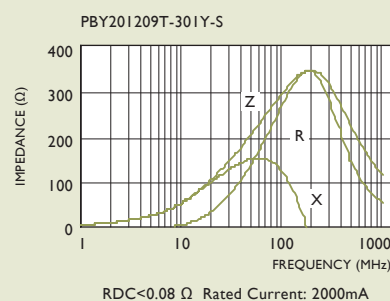
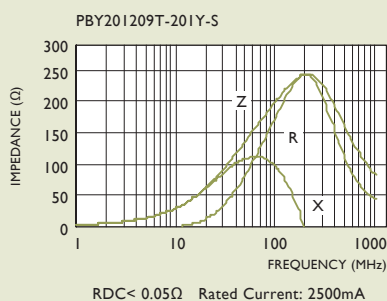
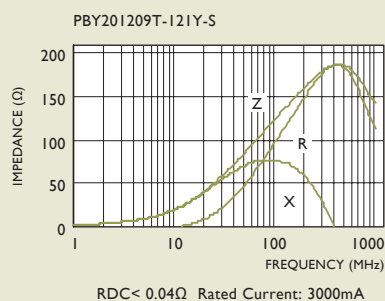
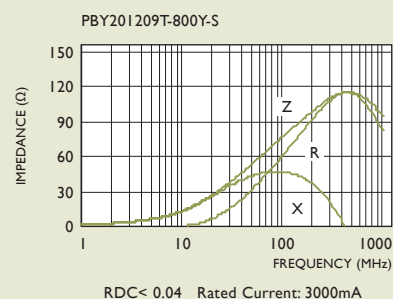
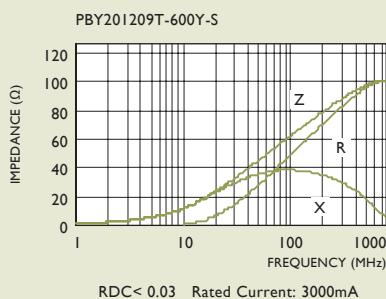
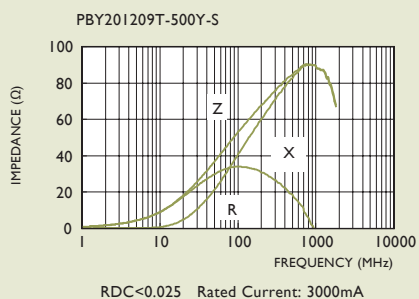
Test Instruments : HP4291A Impedance / Material Analyzer





## TYPICAL ELECTRICAL CHARACTERISTICS

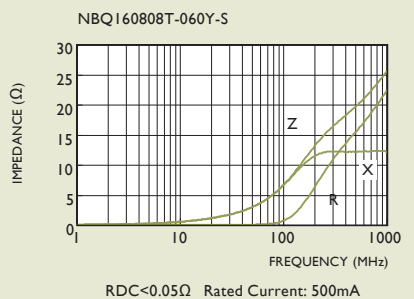
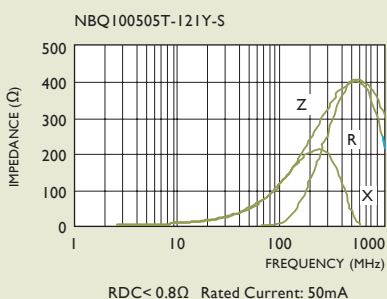
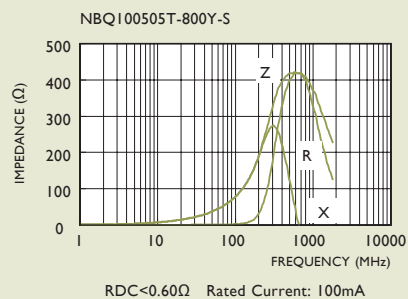
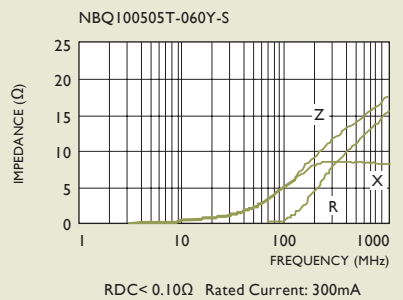
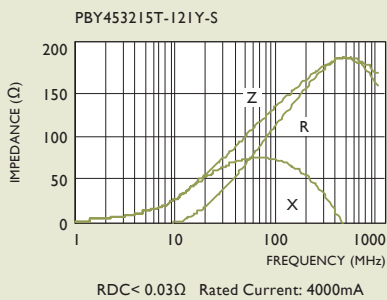
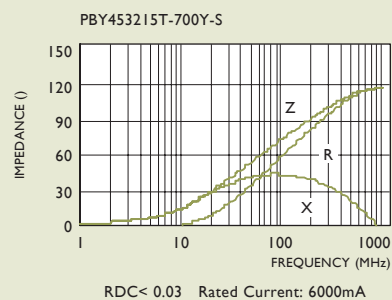
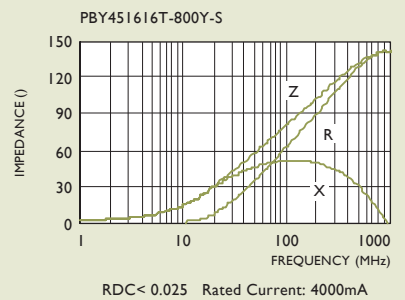
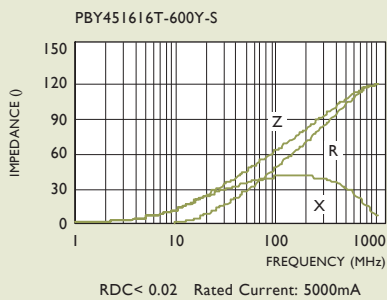
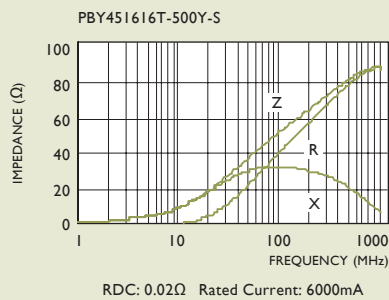
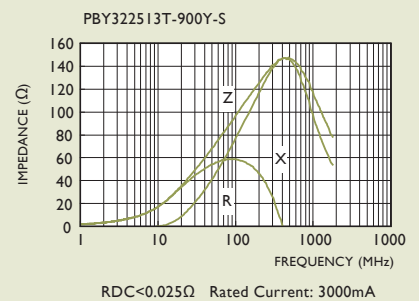
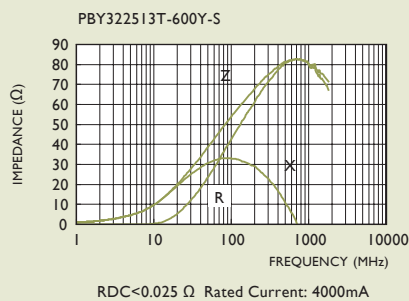
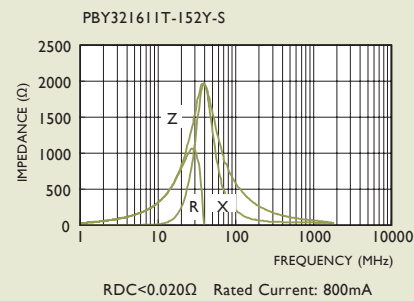
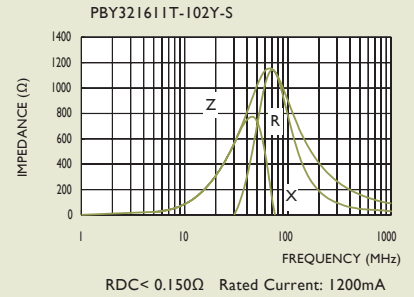
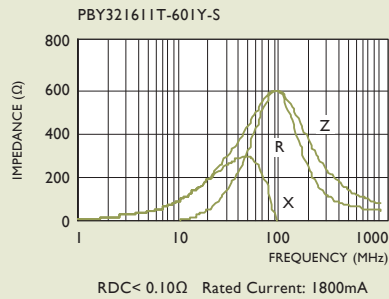
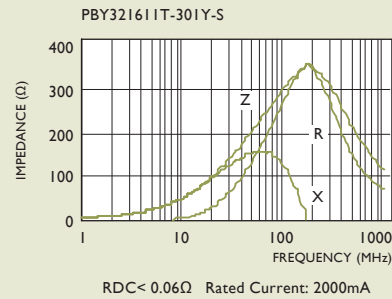
Test Instruments : HP4291A Impedance / Material Analyzer





## TYPICAL ELECTRICAL CHARACTERISTICS

Test Instruments : HP4291A Impedance / Material Analyzer

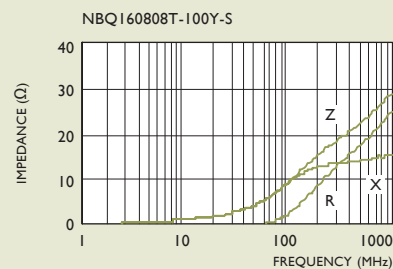




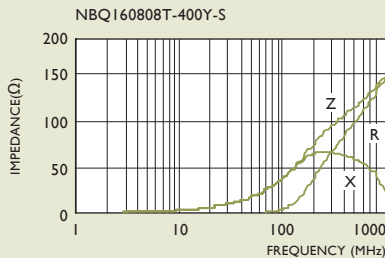


## TYPICAL ELECTRICAL CHARACTERISTICS

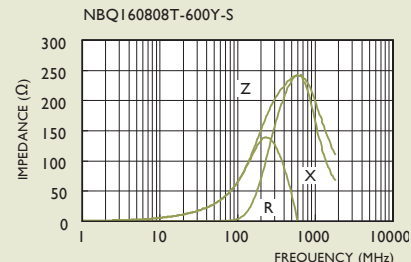
Test Instruments : HP4291A Impedance / Material Analyzer



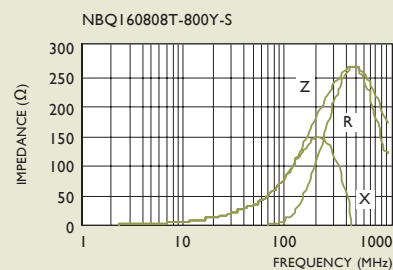
RDC < 0.07 Ω Rated Current: 400mA



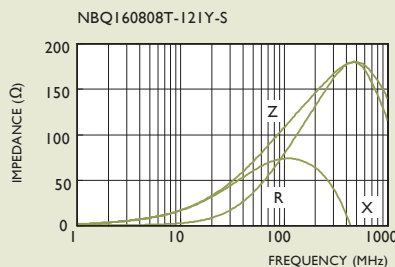
RDC < 0.2 Ω Rate Current: 300mA



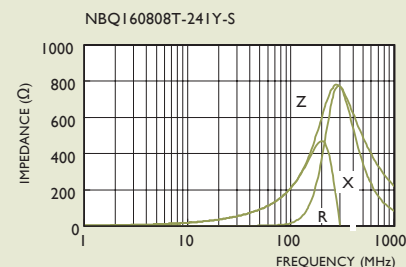
RDC < 0.25 Ω Rated Current: 300mA



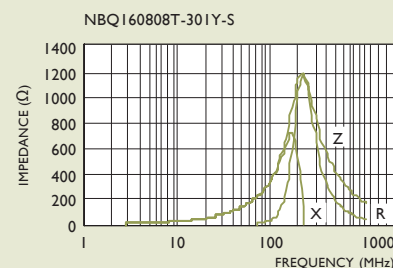
RDC < 0.25 Ω Rated Current: 300mA



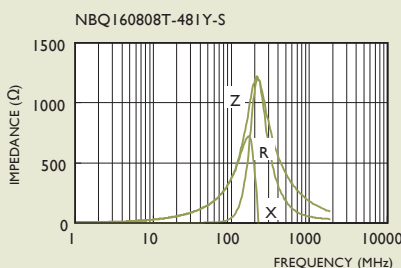
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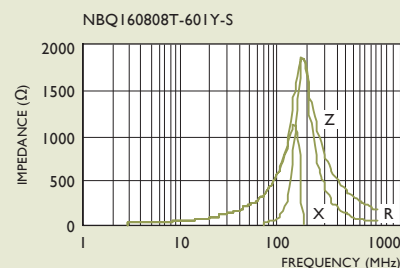
RDC < 0.35 Ω Rated Current: 200mA



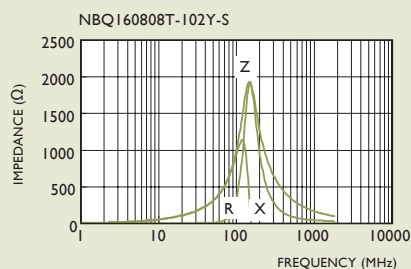
RDC < 0.4 Ω Rated Current: 200mA



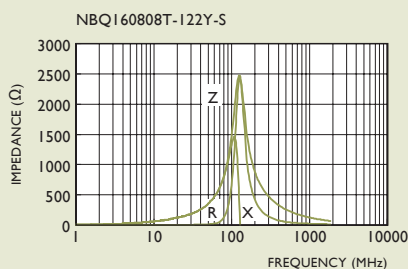
RDC < 0.50 Ω Rated Current: 200mA



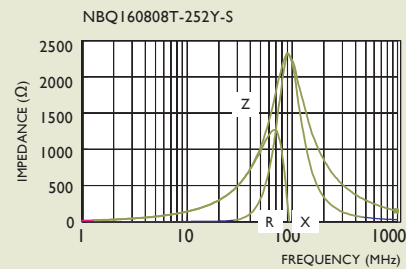
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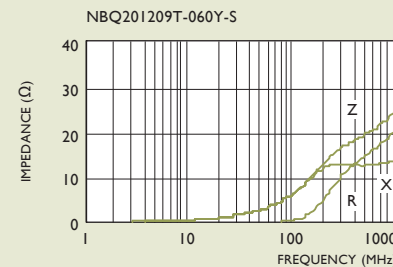
RDC < 0.6 Ω Rated Current: 100mA



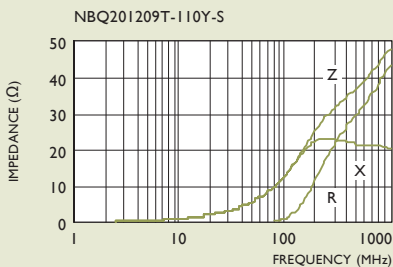
RDC < 0.60 Ω Rated Current: 100mA



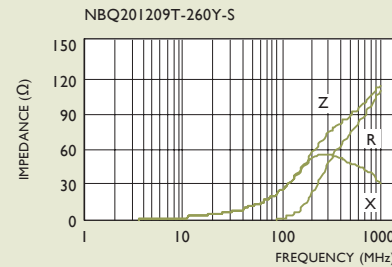
RDC < 0.10 Ω Rated Current: 50mA



RDC < 0.07 Ω Rated Current: 800mA



RDC < 0.1 Ω Rated Current: 700mA

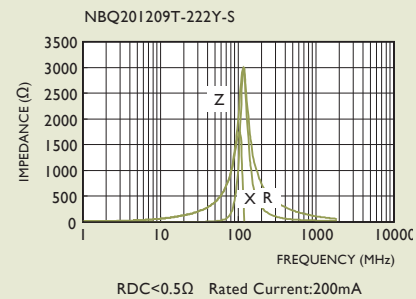
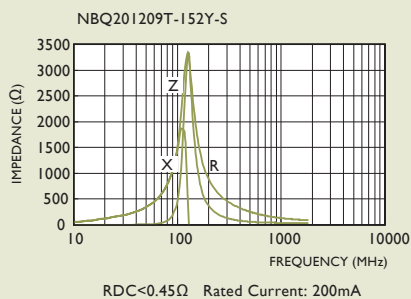
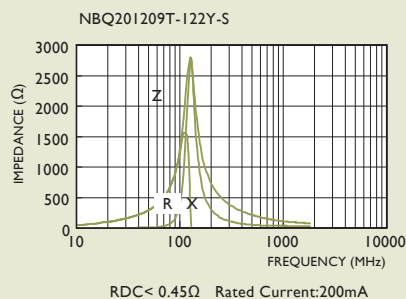
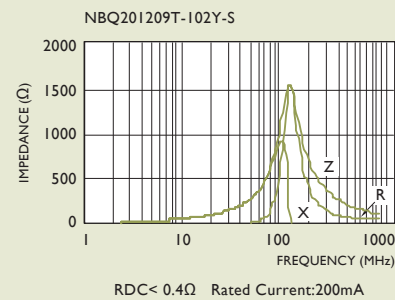
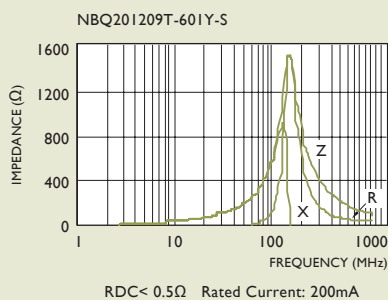
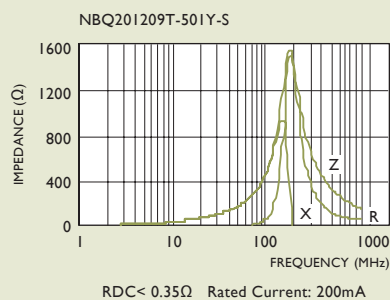
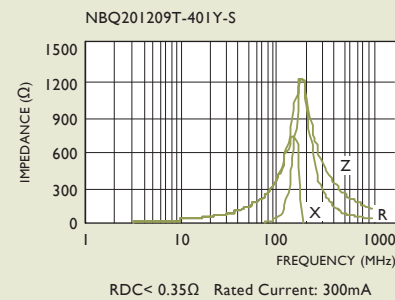
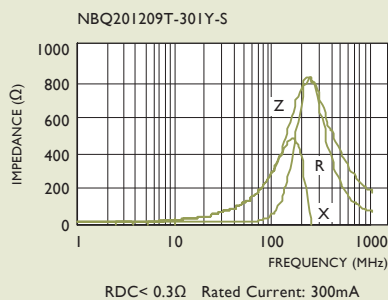
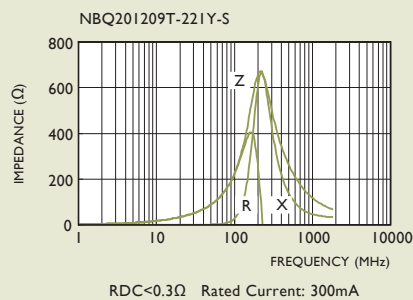
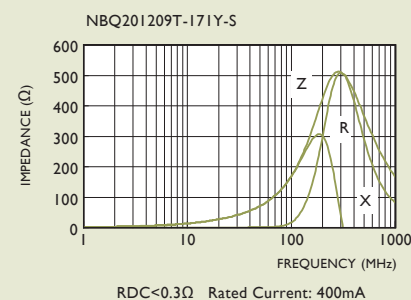
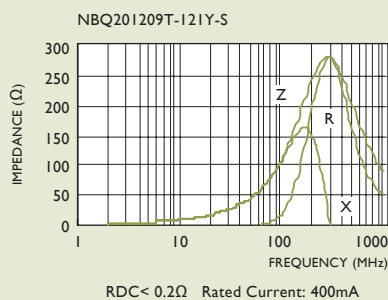
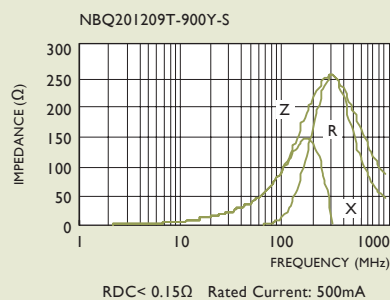
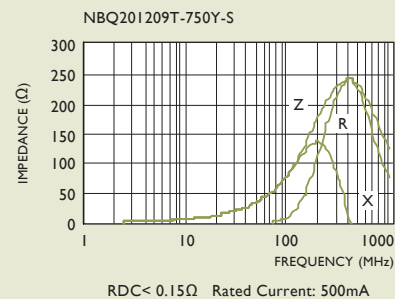
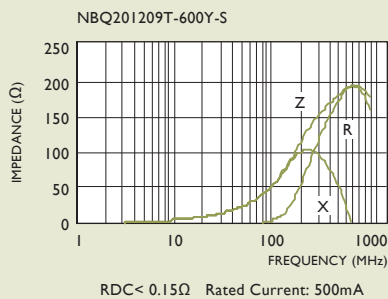
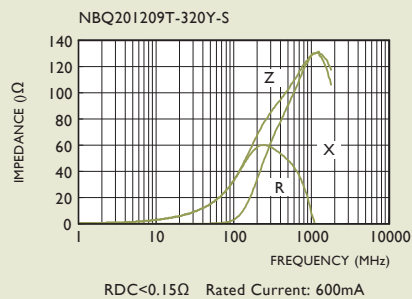


RDC < 0.15 Ω Rated Current: 600mA



## TYPICAL ELECTRICAL CHARACTERISTICS

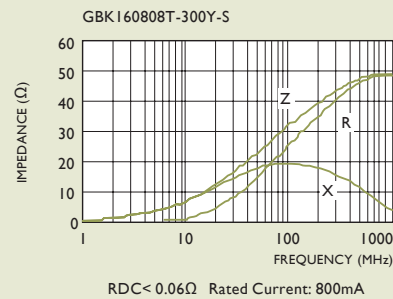
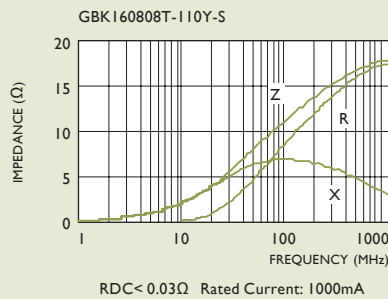
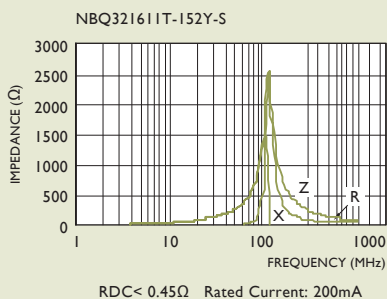
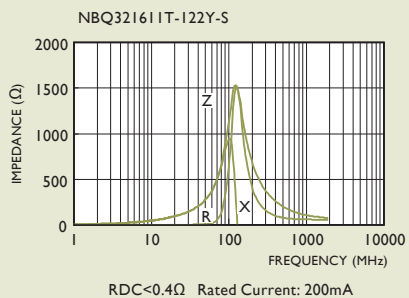
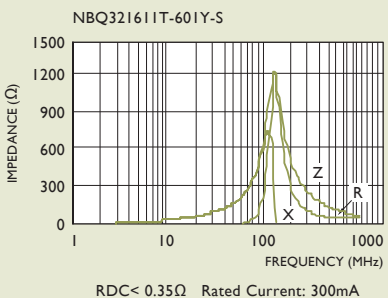
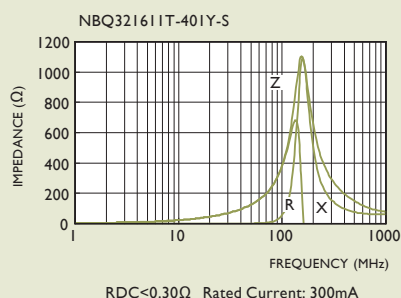
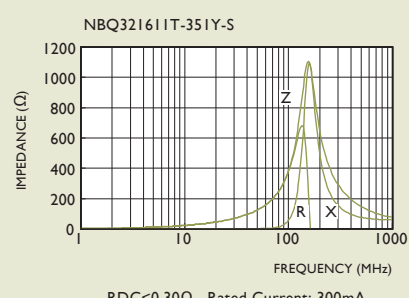
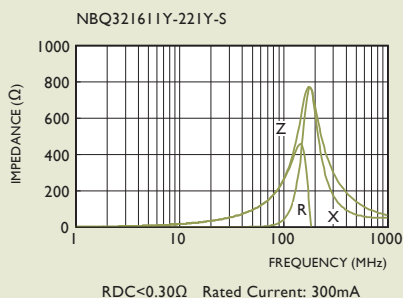
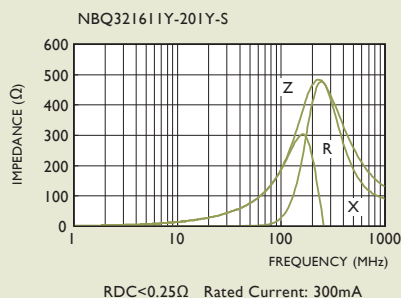
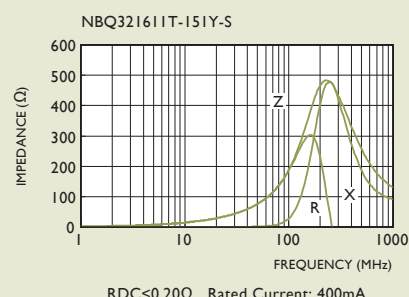
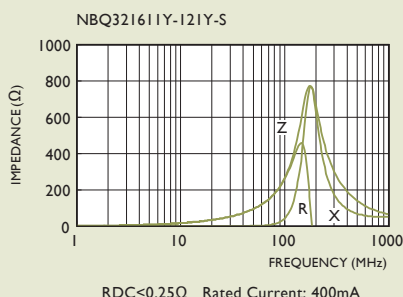
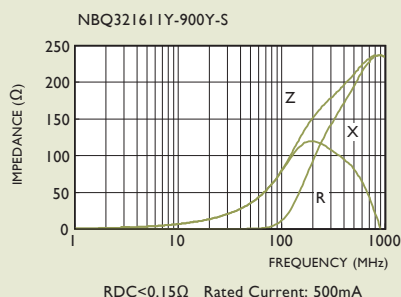
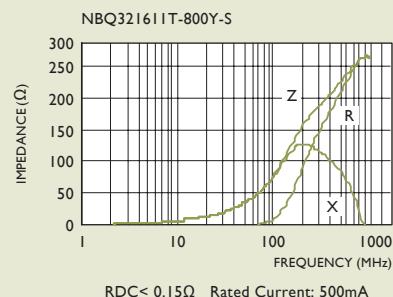
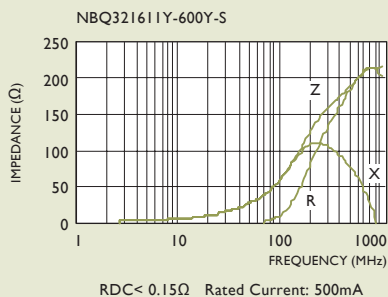
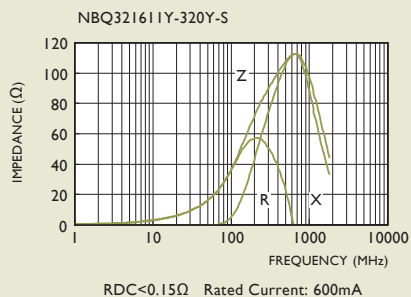
Test Instruments : HP4291A Impedance / Material Analyzer





## TYPICAL ELECTRICAL CHARACTERISTICS

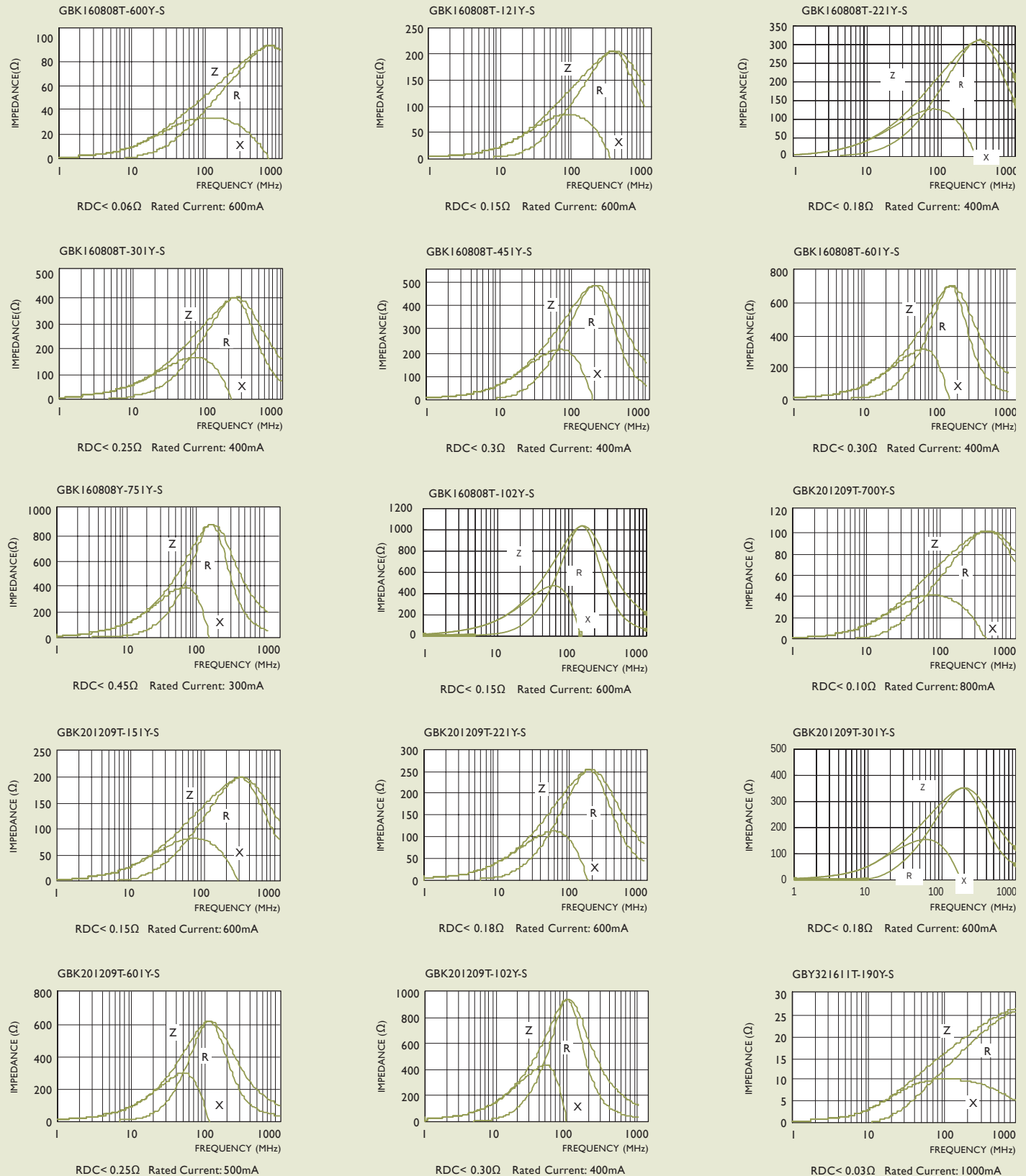
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## TYPICAL ELECTRICAL CHARACTERISTICS

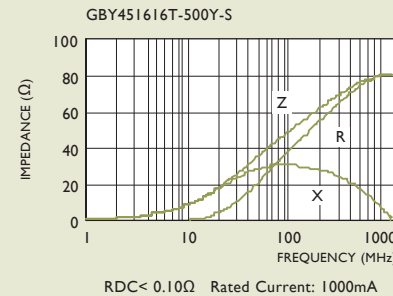
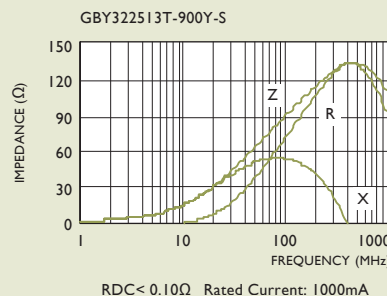
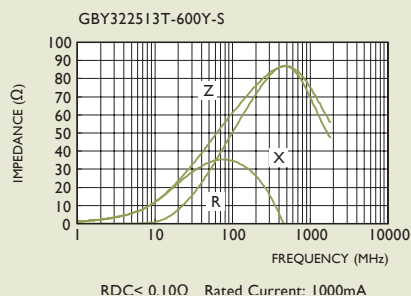
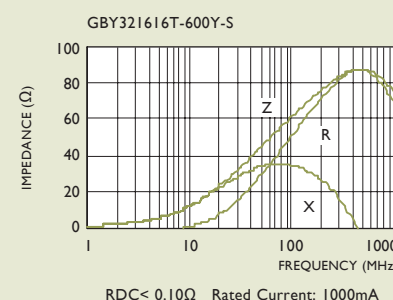
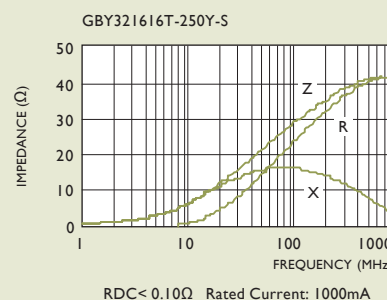
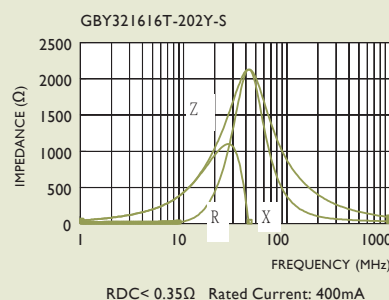
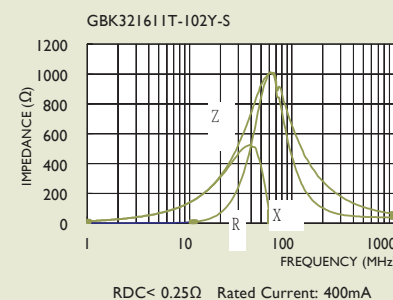
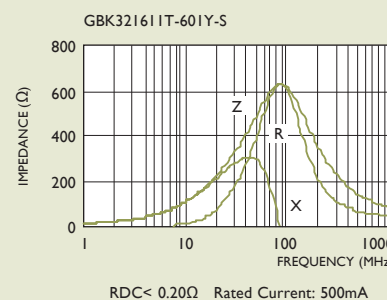
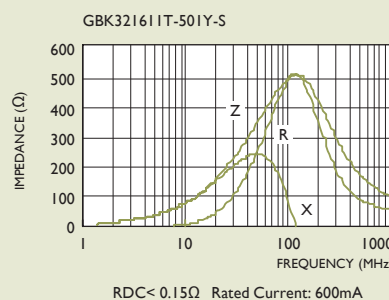
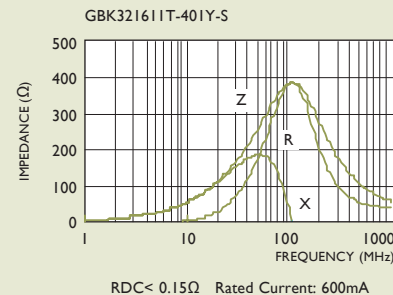
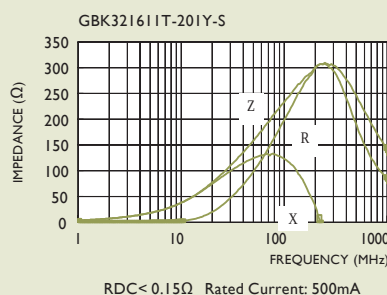
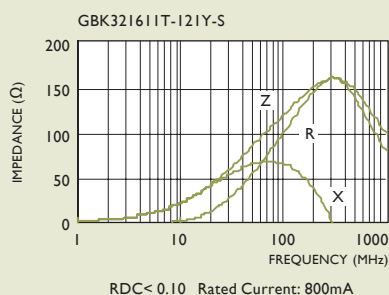
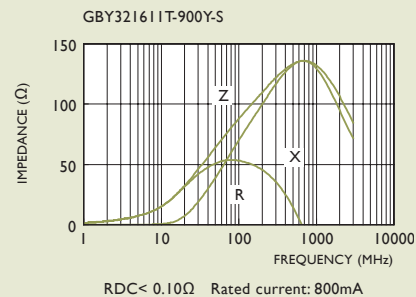
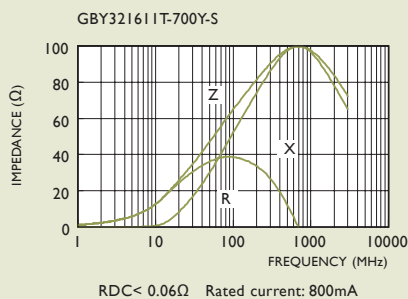
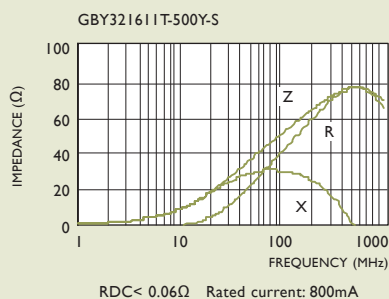
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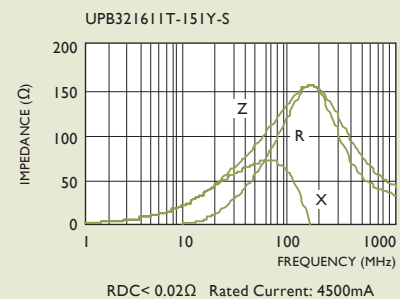
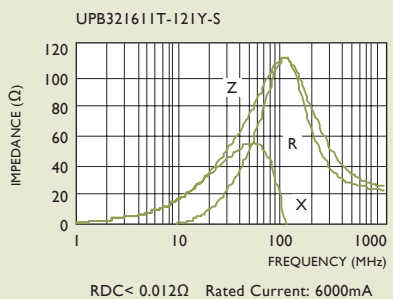
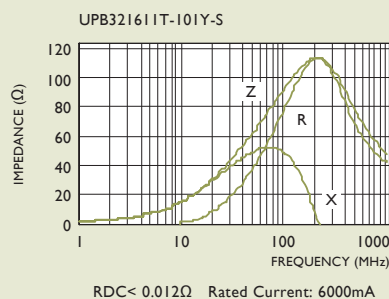
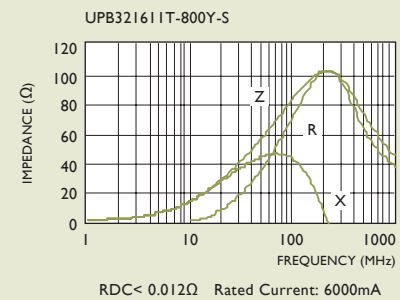
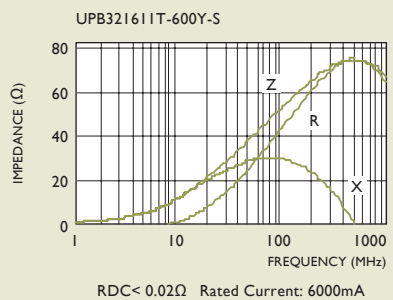
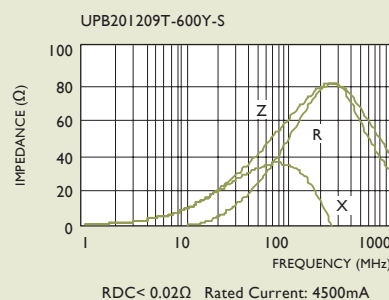
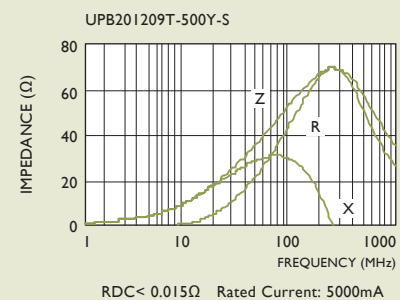
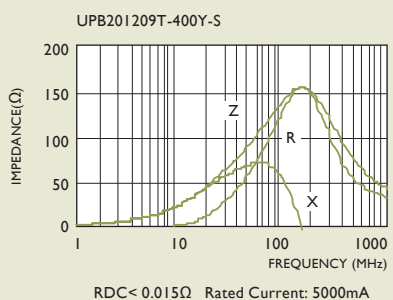
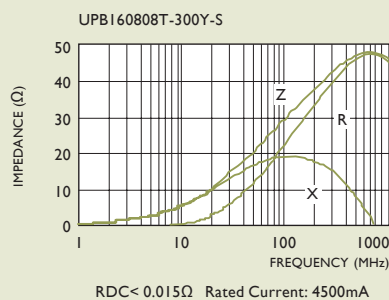
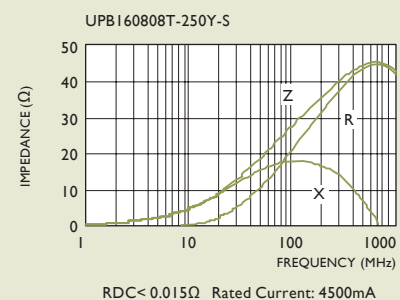
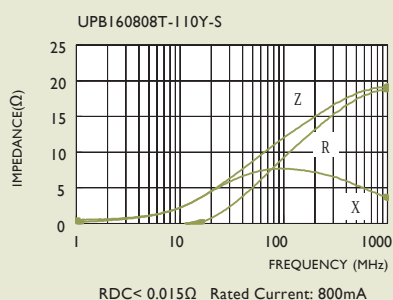
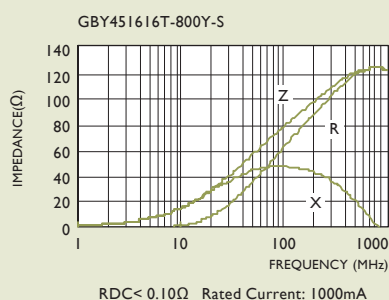
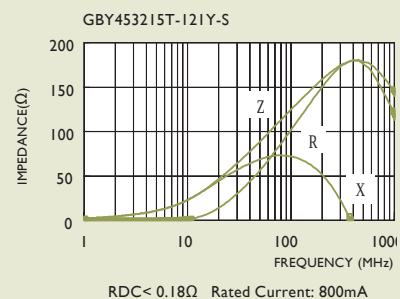
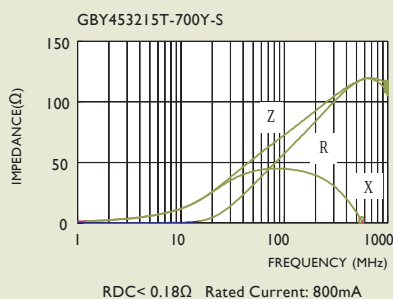
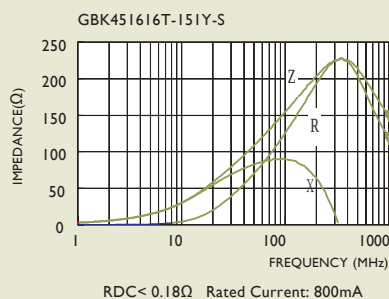
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## TYPICAL ELECTRICAL CHARACTERISTICS

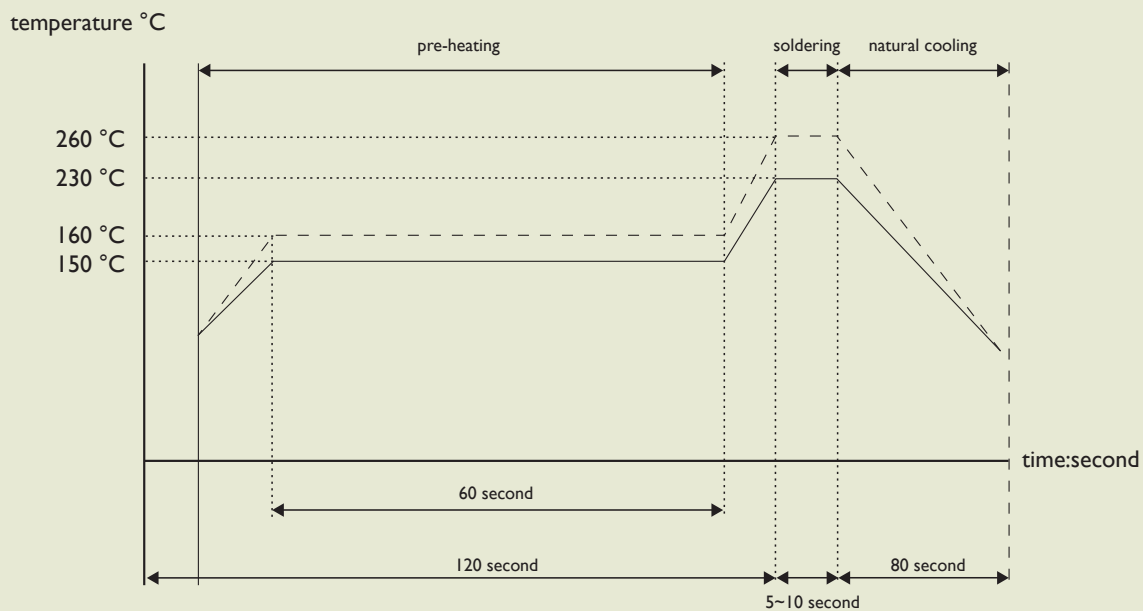
Test Instruments : HP4291A Impedance / Material Analyzer





## RECOMMEND SOLDERING CONDITIONS

for:CL/ CLH/ SQV/ SMD power inductors/ SMD Chip Beads/ SMD Filters, Transformers, Current Sensors



for: lead solder

for: lead-free solder

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