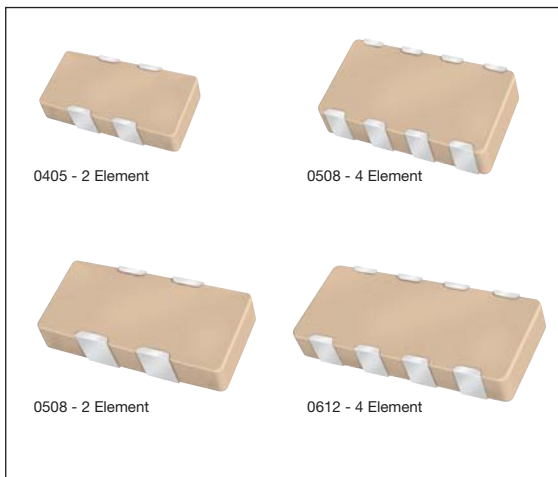


# Capacitor Array



## Capacitor Array (IPC)



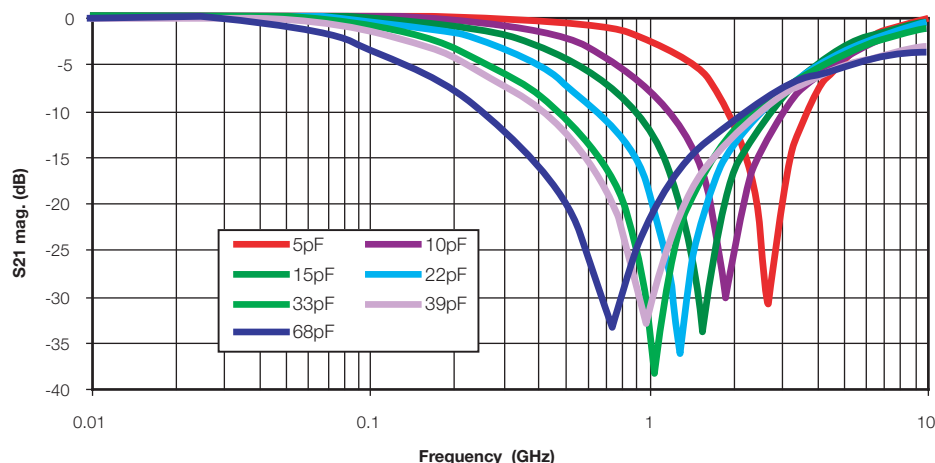
### GENERAL DESCRIPTION

AVX is the market leader in the development and manufacture of capacitor arrays. The smallest array option available from AVX, the 0405 2-element device, has been an enormous success in the Telecommunications market. The array family of products also includes the 0612 4-element device as well as 0508 2-element and 4-element series, all of which have received widespread acceptance in the marketplace.

AVX capacitor arrays are available in X5R, X7R and NP0 (C0G) ceramic dielectrics to cover a broad range of capacitance values. Voltage ratings from 6.3 Volts up to 100 Volts are offered. AVX also now offers a range of automotive capacitor arrays qualified to AEC-Q200 (see separate table).

Key markets for capacitor arrays are Mobile and Cordless Phones, Digital Set Top Boxes, Computer Motherboards and Peripherals as well as Automotive applications, RF Modems, Networking Products, etc.

AVX Capacitor Array - W2A41A\*\*\*K  
S21 Magnitude



### HOW TO ORDER

| W                                    | 2                                                                | A            | 4                     | 3                                                                                | C                                                  | 103                                                       | M                                                                                 | A                                                       | T                                                                                                                          | 2A                                                                                                          |
|--------------------------------------|------------------------------------------------------------------|--------------|-----------------------|----------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Style</b><br>W = RoHS<br>L = SnPb | <b>Case Size</b><br>1 = 0405<br>2 = 0508<br>3 = 0612<br>5 = 0306 | <b>Array</b> | <b>Number of Caps</b> | <b>Voltage</b><br>6 = 6V<br>Z = 10V<br>Y = 16V<br>3 = 25V<br>5 = 50V<br>1 = 100V | <b>Dielectric</b><br>A = NP0<br>C = X7R<br>D = X5R | <b>Capacitance Code</b><br>2 Sig Digits + Number of Zeros | <b>Capacitance Tolerance</b><br>J = $\pm 5\%$<br>K = $\pm 10\%$<br>M = $\pm 20\%$ | <b>Failure Rate</b><br>A = Commercial<br>4 = Automotive | <b>Termination Code</b><br>T = Plated Ni and Sn**<br>Z = FLEXITERM**<br>B = 5% min lead<br>X = FLEXITERM® with 5% min lead | <b>Packaging &amp; Quantity Code</b><br>2A = 7" Reel (4000)<br>4A = 13" Reel (10000)<br>2F = 7" Reel (1000) |

Not RoHS Compliant

\*\*RoHS compliant



For RoHS compliant products,  
please select correct termination style

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.



# Capacitor Array

## Capacitance Range – NP0/C0G

| SIZE           |             | 0405                           |    |    | 0508                           |    |    |     | 0508                           |    |    |     | 0612                            |    |    |     |
|----------------|-------------|--------------------------------|----|----|--------------------------------|----|----|-----|--------------------------------|----|----|-----|---------------------------------|----|----|-----|
| # Elements     |             | 2                              |    |    | 2                              |    |    |     | 4                              |    |    |     | 4                               |    |    |     |
| Soldering      |             | Reflow Only                    |    |    | Reflow/Wave                    |    |    |     | Reflow/Wave                    |    |    |     | Reflow/Wave                     |    |    |     |
| Packaging      |             | All Paper                      |    |    | All Paper                      |    |    |     | Paper/Embossed                 |    |    |     | Paper/Embossed                  |    |    |     |
| Length         | mm<br>(in.) | 1.00 ± 0.15<br>(0.039 ± 0.006) |    |    | 1.30 ± 0.15<br>(0.051 ± 0.006) |    |    |     | 1.30 ± 0.15<br>(0.051 ± 0.006) |    |    |     | 1.60 ± 0.150<br>(0.063 ± 0.006) |    |    |     |
| Width          | mm<br>(in.) | 1.37 ± 0.15<br>(0.054 ± 0.006) |    |    | 2.10 ± 0.15<br>(0.083 ± 0.006) |    |    |     | 2.10 ± 0.15<br>(0.083 ± 0.006) |    |    |     | 3.20 ± 0.20<br>(0.126 ± 0.008)  |    |    |     |
| Max. Thickness | mm<br>(in.) | 0.66<br>(0.026)                |    |    | 0.94<br>(0.037)                |    |    |     | 0.94<br>(0.037)                |    |    |     | 1.35<br>(0.053)                 |    |    |     |
| WVDC           |             | 16                             | 25 | 50 | 16                             | 25 | 50 | 100 | 16                             | 25 | 50 | 100 | 16                              | 25 | 50 | 100 |
| 1R0            | Cap         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 1R2            | (pF)        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 1R5            | 1.5         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 1R8            | 1.8         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 2R2            | 2.2         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 2R7            | 2.7         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 3R3            | 3.3         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 3R9            | 3.9         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 4R7            | 4.7         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 5R6            | 5.6         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 6R8            | 6.8         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 8R2            | 8.2         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 100            | 10          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 120            | 12          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 150            | 15          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 180            | 18          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 220            | 22          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 270            | 27          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 330            | 33          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 390            | 39          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 470            | 47          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 560            | 56          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 680            | 68          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 820            | 82          |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 101            | 100         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 121            | 120         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 151            | 150         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 181            | 180         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 221            | 220         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 271            | 270         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 331            | 330         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 391            | 390         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 471            | 470         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 561            | 560         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 681            | 680         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 821            | 820         |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 102            | 1000        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 122            | 1200        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 152            | 1500        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 182            | 1800        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 222            | 2200        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 272            | 2700        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 332            | 3300        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 392            | 3900        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 472            | 4700        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 562            | 5600        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 682            | 6800        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |
| 822            | 8200        |                                |    |    |                                |    |    |     |                                |    |    |     |                                 |    |    |     |

# Capacitor Array



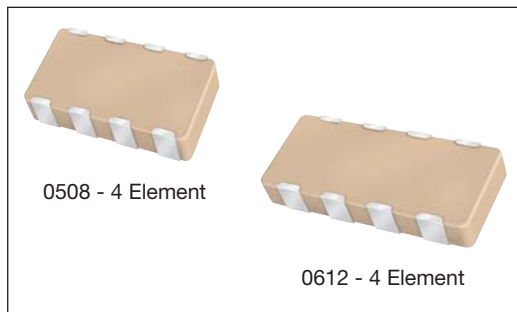
## Capacitance Range – X7R/X5R

| SIZE                    | 0306                           | 0405                           | 0508                           | 0508                           | 0612                            |
|-------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|
| # Elements              | 4                              | 2                              | 2                              | 4                              | 4                               |
| Soldering               | Reflow Only                    | Reflow Only                    | Reflow/Wave                    | Reflow/Wave                    | Reflow/Wave                     |
| Packaging               | All Paper                      | All Paper                      | All Paper                      | Paper/Embossed                 | Paper/Embossed                  |
| Length mm (in.)         | 1.60 ± 0.15<br>(0.063 ± 0.006) | 1.00 ± 0.15<br>(0.039 ± 0.006) | 1.30 ± 0.15<br>(0.051 ± 0.006) | 1.30 ± 0.15<br>(0.051 ± 0.006) | 1.60 ± 0.150<br>(0.063 ± 0.006) |
| Width mm (in.)          | 0.81 ± 0.15<br>(0.032 ± 0.006) | 1.37 ± 0.15<br>(0.054 ± 0.006) | 2.10 ± 0.15<br>(0.083 ± 0.006) | 2.10 ± 0.15<br>(0.083 ± 0.006) | 3.20 ± 0.20<br>(0.126 ± 0.008)  |
| Max. Thickness mm (in.) | 0.50<br>(0.020)                | 0.66<br>(0.026)                | 0.94<br>(0.037)                | 0.94<br>(0.037)                | 1.35<br>(0.053)                 |
| WVDC                    | 6 10 16 25                     | 6 10 16 25 50                  | 6 10 16 25 50 100              | 6 10 16 25 50 100              | 6 10 16 25 50 100               |
| 101 Cap 100 (pF)        |                                |                                |                                |                                |                                 |
| 121 120 (pF)            |                                |                                |                                |                                |                                 |
| 151 150                 |                                |                                |                                |                                |                                 |
| 181 180                 |                                |                                |                                |                                |                                 |
| 221 220                 |                                |                                |                                |                                |                                 |
| 271 270                 |                                |                                |                                |                                |                                 |
| 331 330                 |                                |                                |                                |                                |                                 |
| 391 390                 |                                |                                |                                |                                |                                 |
| 471 470                 |                                |                                |                                |                                |                                 |
| 561 560                 |                                |                                |                                |                                |                                 |
| 681 680                 |                                |                                |                                |                                |                                 |
| 821 820                 |                                |                                |                                |                                |                                 |
| 102 1000                |                                |                                |                                |                                |                                 |
| 122 1200                |                                |                                |                                |                                |                                 |
| 152 1500                |                                |                                |                                |                                |                                 |
| 182 1800                |                                |                                |                                |                                |                                 |
| 222 2200                |                                |                                |                                |                                |                                 |
| 272 2700                |                                |                                |                                |                                |                                 |
| 332 3300                |                                |                                |                                |                                |                                 |
| 392 3900                |                                |                                |                                |                                |                                 |
| 472 4700                |                                |                                |                                |                                |                                 |
| 562 5600                |                                |                                |                                |                                |                                 |
| 682 6800                |                                |                                |                                |                                |                                 |
| 822 8200                |                                |                                |                                |                                |                                 |
| 103 Cap 0.010 (μF)      |                                |                                |                                |                                |                                 |
| 123 0.012 (μF)          |                                |                                |                                |                                |                                 |
| 153 0.015               |                                |                                |                                |                                |                                 |
| 183 0.018               |                                |                                |                                |                                |                                 |
| 223 0.022               |                                |                                |                                |                                |                                 |
| 273 0.027               |                                |                                |                                |                                |                                 |
| 333 0.033               |                                |                                |                                |                                |                                 |
| 393 0.039               |                                |                                |                                |                                |                                 |
| 473 0.047               |                                |                                |                                |                                |                                 |
| 563 0.056               |                                |                                |                                |                                |                                 |
| 683 0.068               |                                |                                |                                |                                |                                 |
| 823 0.082               |                                |                                |                                |                                |                                 |
| 104 0.10                |                                |                                |                                |                                |                                 |
| 124 0.12                |                                |                                |                                |                                |                                 |
| 154 0.15                |                                |                                |                                |                                |                                 |
| 184 0.18                |                                |                                |                                |                                |                                 |
| 224 0.22                |                                |                                |                                |                                |                                 |
| 274 0.27                |                                |                                |                                |                                |                                 |
| 334 0.33                |                                |                                |                                |                                |                                 |
| 474 0.47                |                                |                                |                                |                                |                                 |
| 564 0.56                |                                |                                |                                |                                |                                 |
| 684 0.68                |                                |                                |                                |                                |                                 |
| 824 0.82                |                                |                                |                                |                                |                                 |
| 105 1.0                 |                                |                                |                                |                                |                                 |
| 125 1.2                 |                                |                                |                                |                                |                                 |
| 155 1.5                 |                                |                                |                                |                                |                                 |
| 185 1.8                 |                                |                                |                                |                                |                                 |
| 225 2.2                 |                                |                                |                                |                                |                                 |
| 335 3.3                 |                                |                                |                                |                                |                                 |
| 475 4.7                 |                                |                                |                                |                                |                                 |
| 106 10                  |                                |                                |                                |                                |                                 |
| 226 22                  |                                |                                |                                |                                |                                 |
| 476 47                  |                                |                                |                                |                                |                                 |
| 107 100                 |                                |                                |                                |                                |                                 |

- = Currently available X7R
- = Currently available X5R
- = Under development X7R, contact factory for advance samples
- = Under development X5R, contact factory for advance samples



# Automotive Capacitor Array (IPC)



As the market leader in the development and manufacture of capacitor arrays AVX is pleased to offer a range of AEC-Q200 qualified arrays to compliment our product offering to the Automotive industry. Both the AVX 0612 and 0508 4-element capacitor array styles are qualified to the AEC-Q200 automotive specifications.

AEC-Q200 is the Automotive Industry qualification standard and a detailed qualification package is available on request.

All AVX automotive capacitor array production facilities are certified to ISO/TS 16949:2002.

## HOW TO ORDER

| W                                    | 3                                                    | A            | 4                     | Y                                                                      | C                                                  | 104                                                                                            | K                                                                                   | 4                                     | T                                                                                                                       | 2A                                                                                                          |
|--------------------------------------|------------------------------------------------------|--------------|-----------------------|------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Style</b><br>W = RoHS<br>L = SnPb | <b>Case Size</b><br>1 = 0405<br>2 = 0508<br>3 = 0612 | <b>Array</b> | <b>Number of Caps</b> | <b>Voltage</b><br>Z = 10V<br>Y = 16V<br>3 = 25V<br>5 = 50V<br>1 = 100V | <b>Dielectric</b><br>A = NP0<br>C = X7R<br>F = X8R | <b>Capacitance Code (In pF)</b><br>Significant Digits + Number of Zeros<br>e.g. 10 $\mu$ F=106 | <b>Capacitance Tolerance</b><br>*J = $\pm 5\%$<br>*K = $\pm 10\%$<br>M = $\pm 20\%$ | <b>Failure Rate</b><br>4 = Automotive | <b>Terminations</b><br>T = Plated Ni and Sn**<br>Z = FLEXITERM®**<br>B = 5% min lead<br>X = FLEXITERM® with 5% min lead | <b>Packaging &amp; Quantity Code</b><br>2A = 7" Reel (4000)<br>4A = 13" Reel (10000)<br>2F = 7" Reel (1000) |

\*\*RoHS compliant

\*Contact factory for availability by part number for K =  $\pm 10\%$  and J =  $\pm 5\%$  tolerance.

| NP0/COG                                         |                      |      |      |    |    |     |      |    |    |     |  |  |
|-------------------------------------------------|----------------------|------|------|----|----|-----|------|----|----|-----|--|--|
| SIZE                                            | 0405                 | 0508 | 0508 |    |    |     | 0612 |    |    |     |  |  |
| No. of Elements                                 | 2                    | 2    | 4    |    |    |     | 4    |    |    |     |  |  |
| WVDC                                            | 50                   | 50   | 16   | 25 | 50 | 100 | 16   | 25 | 50 | 100 |  |  |
| 1R0<br>Cap 1.0<br>1R2<br>(pF) 1.2<br>1R5<br>1.5 |                      |      |      |    |    |     |      |    |    |     |  |  |
| 1R8<br>2R2<br>2R7                               | 1.8<br>2.2<br>2.7    |      |      |    |    |     |      |    |    |     |  |  |
| 3R3<br>3R9<br>4R7                               | 3.3<br>3.9<br>4.7    |      |      |    |    |     |      |    |    |     |  |  |
| 5R6<br>6R8<br>8R2                               | 5.6<br>6.8<br>8.2    |      |      |    |    |     |      |    |    |     |  |  |
| 100<br>120<br>150                               | 10<br>12<br>15       |      |      |    |    |     |      |    |    |     |  |  |
| 180<br>220<br>270                               | 18<br>22<br>27       |      |      |    |    |     |      |    |    |     |  |  |
| 330<br>390<br>470                               | 33<br>39<br>47       |      |      |    |    |     |      |    |    |     |  |  |
| 560<br>680<br>820                               | 56<br>68<br>82       |      |      |    |    |     |      |    |    |     |  |  |
| 101<br>121<br>151                               | 100<br>120<br>150    |      |      |    |    |     |      |    |    |     |  |  |
| 181<br>221<br>271                               | 180<br>220<br>270    |      |      |    |    |     |      |    |    |     |  |  |
| 331<br>391<br>471                               | 330<br>390<br>470    |      |      |    |    |     |      |    |    |     |  |  |
| 561<br>681<br>821                               | 560<br>680<br>820    |      |      |    |    |     |      |    |    |     |  |  |
| 102<br>122<br>152                               | 1000<br>1200<br>1500 |      |      |    |    |     |      |    |    |     |  |  |
| 182<br>222<br>272                               | 1800<br>2200<br>2700 |      |      |    |    |     |      |    |    |     |  |  |
| 332<br>392<br>472                               | 3300<br>3900<br>4700 |      |      |    |    |     |      |    |    |     |  |  |
| 562<br>682<br>822                               | 5600<br>6800<br>8200 |      |      |    |    |     |      |    |    |     |  |  |

NP0/COG  
Under development

| X7R                                                         |                         |    |    |     |      |    |    |     |      |    |    |    |
|-------------------------------------------------------------|-------------------------|----|----|-----|------|----|----|-----|------|----|----|----|
| SIZE                                                        | 0508                    |    |    |     | 0508 |    |    |     | 0612 |    |    |    |
| No. of Elements                                             | 2                       |    |    |     | 4    |    |    |     | 4    |    |    |    |
| WVDC                                                        | 16                      | 25 | 50 | 100 | 16   | 25 | 50 | 100 | 10   | 16 | 25 | 50 |
| 101<br>Cap 100<br>121<br>(pF) 120<br>151<br>150             |                         |    |    |     |      |    |    |     |      |    |    |    |
| 181<br>221<br>271                                           | 180<br>220<br>270       |    |    |     |      |    |    |     |      |    |    |    |
| 331<br>391<br>471                                           | 330<br>390<br>470       |    |    |     |      |    |    |     |      |    |    |    |
| 561<br>681<br>821                                           | 560<br>680<br>820       |    |    |     |      |    |    |     |      |    |    |    |
| 102<br>122<br>152                                           | 1000<br>1200<br>1500    |    |    |     |      |    |    |     |      |    |    |    |
| 182<br>222<br>272                                           | 1800<br>2200<br>2700    |    |    |     |      |    |    |     |      |    |    |    |
| 332<br>392<br>472                                           | 3300<br>3900<br>4700    |    |    |     |      |    |    |     |      |    |    |    |
| 562<br>682<br>822                                           | 5600<br>6800<br>8200    |    |    |     |      |    |    |     |      |    |    |    |
| 103<br>Cap 0.010<br>123<br>( $\mu$ F) 0.012<br>153<br>0.015 |                         |    |    |     |      |    |    |     |      |    |    |    |
| 183<br>223<br>273                                           | 0.018<br>0.022<br>0.027 |    |    |     |      |    |    |     |      |    |    |    |
| 333<br>393<br>473                                           | 0.033<br>0.039<br>0.047 |    |    |     |      |    |    |     |      |    |    |    |
| 563<br>683<br>823                                           | 0.056<br>0.068<br>0.082 |    |    |     |      |    |    |     |      |    |    |    |
| 104<br>124<br>154                                           | 0.10<br>0.12<br>0.15    |    |    |     |      |    |    |     |      |    |    |    |
| 224                                                         | 0.22                    |    |    |     |      |    |    |     |      |    |    |    |

X7R  
X8R  
Under development

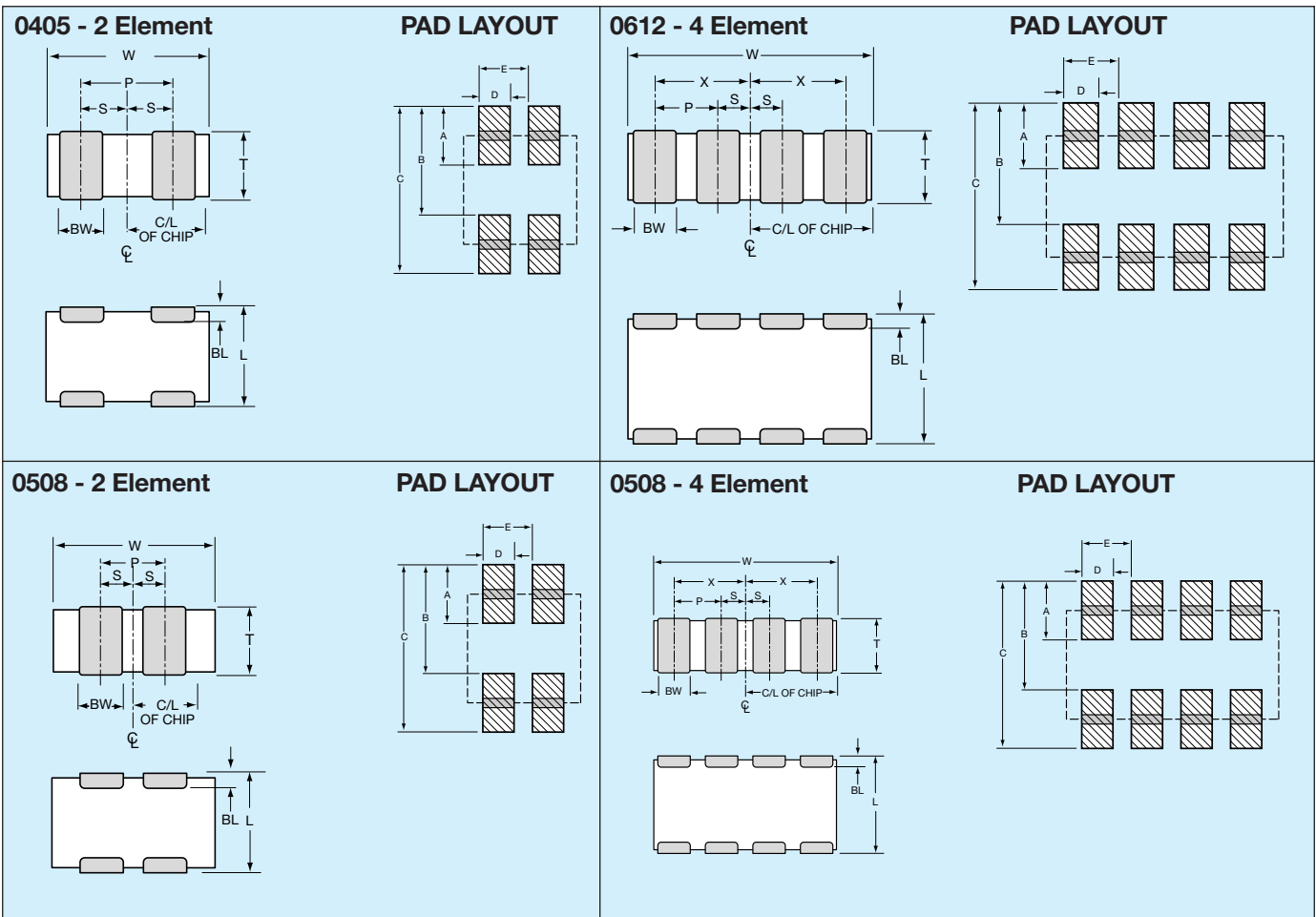
Not RoHS Compliant



For RoHS compliant products,  
please select correct termination style.

## PART & PAD LAYOUT DIMENSIONS

millimeters (inches)



## PART DIMENSIONS

### 0405 - 2 Element

| L                              | W                              | T                       | BW                             | BL                             | P                       | S                              |
|--------------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------|--------------------------------|
| 1.00 ± 0.15<br>(0.039 ± 0.006) | 1.37 ± 0.15<br>(0.054 ± 0.006) | 0.66 MAX<br>(0.026 MAX) | 0.36 ± 0.10<br>(0.014 ± 0.004) | 0.20 ± 0.10<br>(0.008 ± 0.004) | 0.64 REF<br>(0.025 REF) | 0.32 ± 0.10<br>(0.013 ± 0.004) |

### 0508 - 2 Element

| L                              | W                              | T                       | BW                             | BL                             | P                       | S                              |
|--------------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------|--------------------------------|
| 1.30 ± 0.15<br>(0.051 ± 0.006) | 2.10 ± 0.15<br>(0.083 ± 0.006) | 0.94 MAX<br>(0.037 MAX) | 0.43 ± 0.10<br>(0.017 ± 0.004) | 0.33 ± 0.08<br>(0.013 ± 0.003) | 1.00 REF<br>(0.039 REF) | 0.50 ± 0.10<br>(0.020 ± 0.004) |

### 0508 - 4 Element

| L                              | W                              | T                       | BW                             | BL                             | P                       | X                              | S                              |
|--------------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------------|
| 1.30 ± 0.15<br>(0.051 ± 0.006) | 2.10 ± 0.15<br>(0.083 ± 0.006) | 0.94 MAX<br>(0.037 MAX) | 0.25 ± 0.06<br>(0.010 ± 0.003) | 0.20 ± 0.08<br>(0.008 ± 0.003) | 0.50 REF<br>(0.020 REF) | 0.75 ± 0.10<br>(0.030 ± 0.004) | 0.25 ± 0.10<br>(0.010 ± 0.004) |

### 0612 - 4 Element

| L                              | W                              | T                       | BW                             | BL                             | P                       | X                              | S                              |
|--------------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------------|
| 1.60 ± 0.20<br>(0.063 ± 0.008) | 3.20 ± 0.20<br>(0.126 ± 0.008) | 1.35 MAX<br>(0.053 MAX) | 0.41 ± 0.10<br>(0.016 ± 0.004) | 0.18 ± 0.08<br>(0.007 ± 0.003) | 0.76 REF<br>(0.030 REF) | 1.14 ± 0.10<br>(0.045 ± 0.004) | 0.38 ± 0.10<br>(0.015 ± 0.004) |

## PAD LAYOUT DIMENSIONS

### 0405 - 2 Element

| A               | B               | C               | D               | E               |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| 0.46<br>(0.018) | 0.74<br>(0.029) | 1.20<br>(0.047) | 0.30<br>(0.012) | 0.64<br>(0.025) |

### 0508 - 2 Element

| A               | B               | C               | D               | E               |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| 0.68<br>(0.027) | 1.32<br>(0.052) | 2.00<br>(0.079) | 0.46<br>(0.018) | 1.00<br>(0.039) |

### 0508 - 4 Element

| A               | B               | C               | D               | E               |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| 0.56<br>(0.022) | 1.32<br>(0.052) | 1.88<br>(0.074) | 0.30<br>(0.012) | 0.50<br>(0.020) |

### 0612 - 4 Element

| A               | B               | C               | D               | E               |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| 0.89<br>(0.035) | 1.65<br>(0.065) | 2.54<br>(0.100) | 0.46<br>(0.018) | 0.76<br>(0.030) |