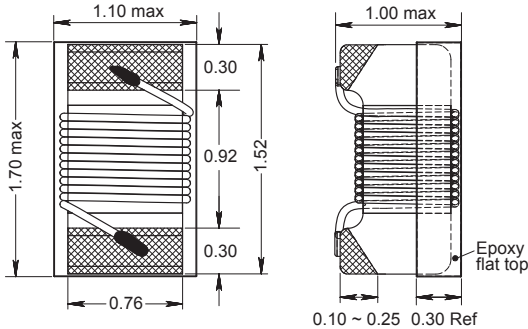
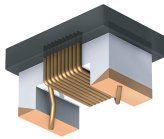
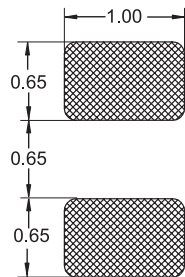


# 0603 AS

Engineer's Kit : EK-0603AS-X

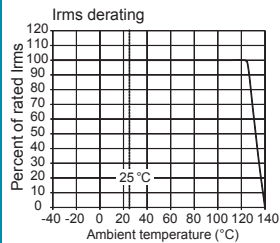


0.10 ~ 0.25 0.30 Ref

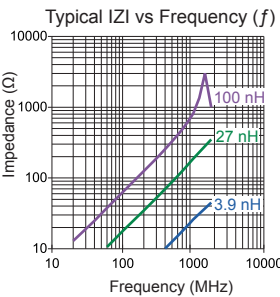
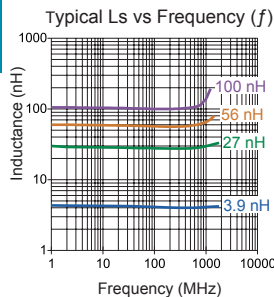
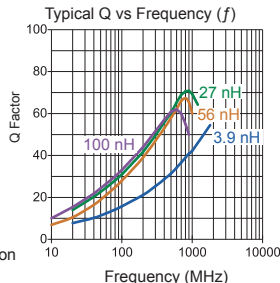


recommended layout for solder pads

Single layer (typ)



Current carrying capacity dependent on the ambient temperature



**Core Material** : Ceramic

**SPQ** : Taped / Reel 1000 [-08]

4000 [-01]

15000 [-04]

**Remarks:**

- Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.
- All are AEC-Q200 Standard approved EXCEPT \*.

| Part No          | Inductance<br>L (nH) | fL<br>(MHz) | Tol<br>± (%) | Q<br>min | fQ<br>(MHz) | SRF<br>(MHz) | DCR<br>max<br>(Ω) | Rated DC<br>Current<br>(mA) |
|------------------|----------------------|-------------|--------------|----------|-------------|--------------|-------------------|-----------------------------|
| 0603AS-1N2M-YY   | 1.2                  | 250         | 20           | 30       | 250         | >6000 min    | 0.030             | 850                         |
| 0603AS-1N3M-YY   | 1.3                  | 250         | 20           | 30       | 250         | >6000 min    | 0.030             | 850                         |
| 0603AS-1N5K-YY   | 1.5                  | 250         | 10           | 20       | 250         | >6000 min    | 0.030             | 850                         |
| 0603AS-1N6K-YY   | 1.6                  | 250         | 10           | 20       | 250         | >6000 min    | 0.030             | 850                         |
| 0603AS-1N8K-YY   | 1.8                  | 250         | 10           | 16       | 250         | >6000 min    | 0.045             | 700                         |
| 0603AS-2N0K-YY   | 2.0                  | 250         | 10           | 10       | 250         | 5900 min     | 0.17              | 170                         |
| 0603AS-2N2M-YY   | 2.2                  | 250         | 20           | 10       | 250         | 5900 min     | 0.17              | 170                         |
| 0603AS-3N3K-YY   | 3.3                  | 250         | 10           | 22       | 250         | 6000 min     | 0.10              | 700                         |
| 0603AS-3N6K-YY   | 3.6                  | 250         | 10           | 20       | 250         | >6000 min    | 0.08              | 700                         |
| 0603AS-3N9K-YY   | 3.9                  | 250         | 10           | 22       | 250         | >6000 min    | 0.08              | 700                         |
| 0603AS-4N3K-YY   | 4.3                  | 250         | 10           | 25       | 250         | >6000 min    | 0.07              | 700                         |
| 0603AS-4N7K-YY   | 4.7                  | 250         | 10           | 25       | 250         | >6000 min    | 0.07              | 700                         |
| 0603AS-5N1K-YY   | 5.1                  | 250         | 10           | 20       | 250         | >6000 min    | 0.10              | 700                         |
| 0603AS-5N6K-YY   | 5.6                  | 250         | 10           | 27       | 250         | 6000 min     | 0.12              | 700                         |
| 0603AS-6N2J-YY   | 6.2                  | 250         | 5            | 25       | 250         | 5800 min     | 0.11              | 700                         |
| 0603AS-6N8J-YY   | 6.8                  | 250         | 5            | 27       | 250         | 5800 min     | 0.11              | 700                         |
| 0603AS-7N5J-YY   | 7.5                  | 250         | 5            | 30       | 250         | 5400 min     | 0.12              | 700                         |
| 0603AS-7N6J-YY   | 7.6                  | 250         | 5            | 30       | 250         | 5400 min     | 0.12              | 700                         |
| 0603AS-8N0J-YY   | 8.0                  | 250         | 5            | 30       | 250         | 5400 min     | 0.12              | 700                         |
| 0603AS-8N2J-YY   | 8.2                  | 250         | 5            | 30       | 250         | 5400 min     | 0.12              | 700                         |
| 0603AS-8N7J-YY   | 8.7                  | 250         | 5            | 28       | 250         | 4600 min     | 0.109             | 700                         |
| 0603AS-8N9J-YY   | 8.9                  | 250         | 5            | 25       | 250         | 4600 min     | 0.19              | 700                         |
| 0603AS-9N5J-YY   | 9.5                  | 250         | 5            | 25       | 250         | 5000 min     | 0.19              | 700                         |
| 0603AS-010J-YY   | 10                   | 250         | 5            | 31       | 250         | 4800 min     | 0.13              | 700                         |
| 0603AS-011J-YY   | 11                   | 250         | 5            | 35       | 250         | 4000 min     | 0.13              | 700                         |
| 0603AS-012J-YY   | 12                   | 250         | 5            | 35       | 250         | 4000 min     | 0.13              | 700                         |
| 0603AS-015J-YY   | 15                   | 250         | 5            | 35       | 250         | 4000 min     | 0.17              | 700                         |
| 0603AS-016J-YY   | 16                   | 250         | 5            | 35       | 250         | 3200 min     | 0.17              | 700                         |
| 0603AS-018J-YY   | 18                   | 250         | 5            | 35       | 250         | 3100 min     | 0.17              | 700                         |
| 0603AS-022J-YY   | 22                   | 250         | 5            | 38       | 250         | 3000 min     | 0.19              | 700                         |
| 0603AS-024J-YY   | 24                   | 250         | 5            | 38       | 250         | 2800 min     | 0.22              | 600                         |
| 0603AS-027J-YY   | 27                   | 250         | 5            | 40       | 250         | 2800 min     | 0.22              | 600                         |
| 0603AS-030J-YY   | 30                   | 250         | 5            | 40       | 250         | 2300 min     | 0.22              | 600                         |
| 0603AS-033J-YY   | 33                   | 250         | 5            | 40       | 250         | 2300 min     | 0.22              | 600                         |
| 0603AS-036J-YY   | 36                   | 250         | 5            | 40       | 250         | 2200 min     | 0.25              | 600                         |
| 0603AS-039J-YY   | 39                   | 250         | 5            | 40       | 250         | 2200 min     | 0.25              | 600                         |
| 0603AS-043J-YY   | 43                   | 250         | 5            | 40       | 250         | 2000 min     | 0.28              | 600                         |
| 0603AS-047J-YY   | 47                   | 200         | 5            | 38       | 200         | 2000 min     | 0.28              | 600                         |
| 0603AS-051J-YY   | 51                   | 200         | 5            | 38       | 200         | 1900 min     | 0.28              | 600                         |
| 0603AS-056J-YY   | 56                   | 200         | 5            | 38       | 200         | 1900 min     | 0.31              | 400                         |
| 0603AS-068J-YY   | 68                   | 200         | 5            | 37       | 200         | 1700 min     | 0.34              | 400                         |
| 0603AS-072J-YY   | 72                   | 150         | 5            | 34       | 150         | 1700 min     | 0.49              | 400                         |
| 0603AS-082J-YY   | 82                   | 150         | 5            | 34       | 150         | 1700 min     | 0.54              | 400                         |
| 0603AS-090J-YY   | 90                   | 150         | 5            | 34       | 150         | 1700 min     | 0.54              | 400                         |
| 0603AS-R10J-YY   | 100                  | 150         | 5            | 34       | 150         | 1400 min     | 0.58              | 400                         |
| 0603AS-R11J-YY   | 110                  | 150         | 5            | 34       | 150         | 1350 min     | 0.61              | 300                         |
| 0603AS-R12J-YY   | 120                  | 150         | 5            | 34       | 150         | 1300 min     | 0.65              | 300                         |
| 0603AS-R13J-YY   | 130                  | 150         | 5            | 32       | 150         | 1200 min     | 0.90              | 200                         |
| 0603AS-R15J-YY   | 150                  | 150         | 5            | 32       | 150         | 1200 min     | 0.90              | 200                         |
| 0603AS-R18J-YY   | 180                  | 100         | 5            | 32       | 100         | 1100 min     | 1.20              | 200                         |
| 0603AS-R20J-YY   | 200                  | 100         | 5            | 30       | 100         | 1100 min     | 1.55              | 200                         |
| 0603AS-R22J-YY   | 220                  | 100         | 5            | 30       | 100         | 1000 min     | 1.60              | 150                         |
| * 0603AS-R25J-YY | 250                  | 100         | 5            | 25       | 100         | 950 min      | 2.30              | 150                         |
| * 0603AS-R27J-YY | 270                  | 100         | 5            | 25       | 100         | 950 min      | 2.30              | 150                         |
| * 0603AS-R30J-YY | 300                  | 100         | 5            | 25       | 100         | 900 min      | 2.40              | 150                         |
| * 0603AS-R33J-YY | 330                  | 100         | 5            | 25       | 100         | 600 min      | 2.50              | 150                         |
| * 0603AS-R39K-YY | 390                  | 100         | 10           | 25       | 100         | 450 min      | 2.90              | 150                         |
| 0603AS-R47K-YY   | 470                  | 25          | 10           | 16       | 25          | 230 typ      | 2.80              | 150                         |
| 0603AS-R56K-YY   | 560                  | 25          | 10           | 16       | 25          | 150 typ      | 2.90              | 150                         |
| 0603AS-R68K-YY   | 680                  | 25          | 10           | 16       | 25          | 140 typ      | 3.00              | 140                         |
| 0603AS-R75K-YY   | 750                  | 25          | 10           | 16       | 25          | 320 typ      | 3.50              | 130                         |
| * 0603AS-R82K-YY | 820                  | 25          | 10           | 16       | 25          | 290 typ      | 3.70              | 120                         |
| * 0603AS-R91K-YY | 910                  | 25          | 10           | 16       | 25          | 140 typ      | 3.80              | 120                         |
| * 0603AS-1R0K-YY | 1000                 | 25          | 10           | 16       | 25          | 250 typ      | 4.00              | 110                         |
| * 0603AS-1R2K-YY | 1200                 | 25          | 10           | 16       | 25          | 140 typ      | 4.20              | 100                         |

Revision date : 03 Sep 2020

● All dimensions in mm