



# DESIGN KIT

## WE-KI 0402 SMD Wire Wound Ceramic Inductor



### SIZE:

0402

### TECHNICAL DATA:

L: 1 ~ 56 nH

$Q_{min}$ : 13 ~ 26

SRF: 1750 ~ > 6000 MHz

$R_{DC}$ : 0.045 ~ 0.970  $\Omega$

**Order Code 744 765 A**  
**Version 1.1**

# WE-KI 0402

## SMD Wire Wound Ceramic Inductor



| 744 765 010 A             | 744 765 019 A             | 744 765 020 A             | 744 765 022 A             | 744 765 024 A             | 744 765 027 A             |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| L: 1 nH @ 250 MHz         | L: 1.9 nH @ 250 MHz       | L: 2 nH @ 250 MHz         | L: 2.2 nH @ 250 MHz       | L: 2.4 nH @ 250 MHz       | L: 2.7 nH @ 250 MHz       |
| $Q_{min}$ : 13 @ 250 MHz  | $Q_{min}$ : 16 @ 250 MHz  | $Q_{min}$ : 16 @ 250 MHz  | $Q_{min}$ : 18 @ 250 MHz  | $Q_{min}$ : 16 @ 250 MHz  | $Q_{min}$ : 16 @ 250 MHz  |
| SRF: > 6000 MHz           | SRF: > 6000 MHz           | SRF: > 6000 MHz           | SRF: > 6000 MHz           | SRF: > 6000 MHz           | SRF: > 6000 MHz           |
| $R_{DC}$ : 0.045 $\Omega$ | $R_{DC}$ : 0.070 $\Omega$ | $R_{DC}$ : 0.070 $\Omega$ | $R_{DC}$ : 0.070 $\Omega$ | $R_{DC}$ : 0.068 $\Omega$ | $R_{DC}$ : 0.120 $\Omega$ |

| 744 765 033 A             | 744 765 036 A             | 744 765 039 A             | 744 765 047 A             | 744 765 051 A             | 744 765 056 A             |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| L: 3.3 nH @ 250 MHz       | L: 3.6 nH @ 250 MHz       | L: 3.9 nH @ 250 MHz       | L: 4.7 nH @ 250 MHz       | L: 5.1 nH @ 250 MHz       | L: 5.6 nH @ 250 MHz       |
| $Q_{min}$ : 20 @ 250 MHz  | $Q_{min}$ : 20 @ 250 MHz  | $Q_{min}$ : 20 @ 250 MHz  | $Q_{min}$ : 15 @ 250 MHz  | $Q_{min}$ : 23 @ 250 MHz  | $Q_{min}$ : 23 @ 250 MHz  |
| SRF: > 6000 MHz           | SRF: > 6000 MHz           | SRF: 5800 MHz             | SRF: 4775 MHz             | SRF: 5800 MHz             | SRF: 5800 MHz             |
| $R_{DC}$ : 0.066 $\Omega$ | $R_{DC}$ : 0.066 $\Omega$ | $R_{DC}$ : 0.066 $\Omega$ | $R_{DC}$ : 0.130 $\Omega$ | $R_{DC}$ : 0.083 $\Omega$ | $R_{DC}$ : 0.083 $\Omega$ |

| 744 765 062 A             | 744 765 068 A             | 744 765 075 A             | 744 765 082 A             | 744 765 087 A             | 744 765 090 A             |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| L: 6.2 nH @ 250 MHz       | L: 6.8 nH @ 250 MHz       | L: 7.5 nH @ 250 MHz       | L: 8.2 nH @ 250 MHz       | L: 8.7 nH @ 250 MHz       | L: 9 nH @ 250 MHz         |
| $Q_{min}$ : 23 @ 250 MHz  | $Q_{min}$ : 20 @ 250 MHz  | $Q_{min}$ : 25 @ 250 MHz  | $Q_{min}$ : 25 @ 250 MHz  | $Q_{min}$ : 18 @ 250 MHz  | $Q_{min}$ : 25 @ 250 MHz  |
| SRF: 5800 MHz             | SRF: 4800 MHz             | SRF: 5800 MHz             | SRF: 4400 MHz             | SRF: 4100 MHz             | SRF: 4160 MHz             |
| $R_{DC}$ : 0.083 $\Omega$ | $R_{DC}$ : 0.083 $\Omega$ | $R_{DC}$ : 0.104 $\Omega$ | $R_{DC}$ : 0.104 $\Omega$ | $R_{DC}$ : 0.200 $\Omega$ | $R_{DC}$ : 0.104 $\Omega$ |

| 744 765 095 A             | 744 765 110 A             | 744 765 111 A             | 744 765 112 A             | 744 765 115 A             | 744 765 116 A             |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| L: 9.5 nH @ 250 MHz       | L: 10 nH @ 250 MHz        | L: 11 nH @ 250 MHz        | L: 12 nH @ 250 MHz        | L: 15 nH @ 250 MHz        | L: 16 nH @ 250 MHz        |
| $Q_{min}$ : 18 @ 250 MHz  | $Q_{min}$ : 23 @ 250 MHz  | $Q_{min}$ : 26 @ 250 MHz  | $Q_{min}$ : 26 @ 250 MHz  | $Q_{min}$ : 26 @ 250 MHz  | $Q_{min}$ : 24 @ 250 MHz  |
| SRF: 4000 MHz             | SRF: 3900 MHz             | SRF: 3680 MHz             | SRF: 3600 MHz             | SRF: 3280 MHz             | SRF: 3100 MHz             |
| $R_{DC}$ : 0.200 $\Omega$ | $R_{DC}$ : 0.195 $\Omega$ | $R_{DC}$ : 0.120 $\Omega$ | $R_{DC}$ : 0.120 $\Omega$ | $R_{DC}$ : 0.172 $\Omega$ | $R_{DC}$ : 0.220 $\Omega$ |

| 744 765 118 A             | 744 765 120 A             | 744 765 122 A             | 744 765 124 A             | 744 765 127 A             | 744 765 133 A             |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| L: 18 nH @ 250 MHz        | L: 20 nH @ 250 MHz        | L: 22 nH @ 250 MHz        | L: 24 nH @ 250 MHz        | L: 27 nH @ 250 MHz        | L: 33 nH @ 250 MHz        |
| $Q_{min}$ : 25 @ 250 MHz  | $Q_{min}$ : 25 @ 250 MHz  | $Q_{min}$ : 25 @ 250 MHz  | $Q_{min}$ : 25 @ 250 MHz  | $Q_{min}$ : 26 @ 250 MHz  | $Q_{min}$ : 24 @ 250 MHz  |
| SRF: 3100 MHz             | SRF: 3000 MHz             | SRF: 2800 MHz             | SRF: 2700 MHz             | SRF: 2480 MHz             | SRF: 2350 MHz             |
| $R_{DC}$ : 0.230 $\Omega$ | $R_{DC}$ : 0.250 $\Omega$ | $R_{DC}$ : 0.300 $\Omega$ | $R_{DC}$ : 0.300 $\Omega$ | $R_{DC}$ : 0.298 $\Omega$ | $R_{DC}$ : 0.350 $\Omega$ |

| 744 765 136 A             | 744 765 139 A             | 744 765 143 A             | 744 765 147 A             | 744 765 151 A             | 744 765 156 A             |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| L: 36 nH @ 250 MHz        | L: 39 nH @ 250 MHz        | L: 43 nH @ 250 MHz        | L: 47 nH @ 200 MHz        | L: 51 nH @ 200 MHz        | L: 56 nH @ 200 MHz        |
| $Q_{min}$ : 26 @ 250 MHz  | $Q_{min}$ : 25 @ 250 MHz  | $Q_{min}$ : 25 @ 250 MHz  | $Q_{min}$ : 26 @ 200 MHz  | $Q_{min}$ : 25 @ 200 MHz  | $Q_{min}$ : 22 @ 200 MHz  |
| SRF: 2320 MHz             | SRF: 2100 MHz             | SRF: 2030 MHz             | SRF: 2100 MHz             | SRF: 1750 MHz             | SRF: 1760 MHz             |
| $R_{DC}$ : 0.403 $\Omega$ | $R_{DC}$ : 0.550 $\Omega$ | $R_{DC}$ : 0.810 $\Omega$ | $R_{DC}$ : 0.830 $\Omega$ | $R_{DC}$ : 0.820 $\Omega$ | $R_{DC}$ : 0.970 $\Omega$ |

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