WÜRTH ELEKTRONIK

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 Ω

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 Ω	R_{DC}:	0.070 Ω	R_{DC}:	0.070 Ω	R_{DC}:	0.070 Ω	R_{DC}:	0.068 Ω	R_{DC}:	0.120 Ω

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 Ω	R_{DC}:	0.066 Ω	R_{DC}:	0.066 Ω	R_{DC}:	0.130 Ω	R_{DC}:	0.083 Ω	R_{DC}:	0.083 Ω

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 Ω	R_{DC}:	0.083 Ω	R_{DC}:	0.104 Ω	R_{DC}:	0.104 Ω	R_{DC}:	0.200 Ω	R_{DC}:	0.104 Ω

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 Ω	R_{DC}:	0.195 Ω	R_{DC}:	0.120 Ω	R_{DC}:	0.120 Ω	R_{DC}:	0.172 Ω	R_{DC}:	0.220 Ω

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 Ω	R_{DC}:	0.250 Ω	R_{DC}:	0.300 Ω	R_{DC}:	0.300 Ω	R_{DC}:	0.298 Ω	R_{DC}:	0.350 Ω

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 Ω	R_{DC}:	0.550 Ω	R_{DC}:	0.810 Ω	R_{DC}:	0.830 Ω	R_{DC}:	0.820 Ω	R_{DC}:	0.970 Ω

Important information: Wurth Elektronik's design kits contain reference components. These components correspond with the current product development status on the day of supply. Exchange of the reference components to components with up-to-date product development status is not carried out automatically. No liability is taken for the use of these reference components. Therefore, please request new samples prior to releases for series production and product release.

All products in stock!

Please check datasheets on www.we-online.com for specifications.