

# EMC & Inductive Solutions One-Click Selection Guide

The pictures are linked to the website.



www.we-online.com



## Ferrites for cable assembly

**STAR-TEC**

Impedance 1 Turn @ 25 MHz:	98 ~ 145 Ω
Impedance 1 Turn @ 100 MHz:	182 ~ 321 Ω
Cable diameter:	3.5 ~ 12.5 mm
Frequency range:	5 ~ 2000 MHz

**STAR-GAP**

Impedance 1 Turn @ 25 MHz:	28 ~ 35 Ω
Impedance 1 Turn @ 500 MHz:	345 ~ 420 Ω
Cable diameter:	4.5 ~ 12.5 mm
Frequency range:	100 ~ 2000 MHz

**STAR-RING**

Impedance 1 Turn @ 25 MHz:	64 ~ 142 Ω
Impedance 1 Turn @ 100 MHz:	119 ~ 327 Ω
Cable diameter:	8 ~ 27 mm
Frequency range:	5 ~ 2000 MHz

**STAR-FLAT**

Impedance 1 Turn @ 25 MHz:	42 ~ 97 Ω
Impedance 1 Turn @ 100 MHz:	114 ~ 194 Ω
Cable poles:	26 ~ 50
Frequency range:	5 ~ 2000 MHz

**Toroidal Ferrites**

Impedance 1 Turn @ 25 MHz:	25 ~ 99 Ω
Impedance 1 Turn @ 100 MHz:	37 ~ 200 Ω
Cable diameter:	3 ~ 26.9 mm
Frequency range:	1 ~ 2000 MHz

**Axial Ferrite Beads**

Impedance 1 Turn @ 25 MHz:	46 ~ 300 Ω
Impedance 1 Turn @ 100 MHz:	70 ~ 451 Ω
Cable diameter:	4.4 ~ 33.4 mm
Frequency range:	1 ~ 2000 MHz

## Ferrites for PCB assembly

**WE-CBF**

Impedance @ 100 MHz:	5 ~ 2700 Ω
DCR:	0.005 ~ 1 Ω
Rated current:	50 ~ 6000 mA
Frequency range:	6 ~ 2000 MHz
Sizes:	0402 ~ 1812

**WE-PBF**

Impedance @ 100 MHz:	42 ~ 98 Ω
DCR:	0.6 ~ 0.9 mΩ
Rated current:	6 A
Frequency range:	6 ~ 2000 MHz

**WE-PF**

DCR:	9 ~ 30 mΩ
Rated current:	4.5 ~ 13.0 A
Frequency range:	1 ~ 100 MHz

**WE-CMS**

Impedance @ 25 MHz:	34 Ω
Impedance @ 100 MHz:	52 Ω
Frequency range:	10 ~ 1000 MHz

## Ferrites for PCB assembly

**5-Hole Ferrite Bead**

Impedance @ 25 MHz:	272 ~ 425 Ω
Impedance @ 100 MHz:	416 ~ 580 Ω
Frequency range:	0.1 ~ 800 MHz

**6-Hole Ferrite Bead**

Impedance @ 25 MHz:	145 ~ 920 Ω
Impedance @ 100 MHz:	230 ~ 1240 Ω
Frequency range:	0.1 ~ 400 MHz

**WE-MLS**

Impedance @ 25 MHz:	136 ~ 292 Ω
Impedance @ 100 MHz:	170 ~ 334 Ω
Frequency range:	10 ~ 800 MHz

## Filter & RF Inductors

**WE-MI**

Inductance:	0.047 ~ 18 μH
DCR:	0.15 ~ 2.1 Ω
Rated current:	3 ~ 300 mA
Frequency range:	1 ~ 100 MHz

**WE-GF**

Inductance:	0.1 ~ 1000 μH
DCR:	0.32 ~ 50 Ω
Rated current:	30 ~ 450 mA
Frequency range:	0.1 ~ 100 MHz

**WE-LQ**

Inductance:	1 ~ 220 μH
DCR:	0.08 ~ 11.8 Ω
Rated current:	0.075 ~ 1.8 mA
Frequency range:	10 ~ 1000 MHz

**WE-TI**

Inductance:	1 ~ 10000 μH
DCR:	0.01 ~ 24 Ω
Rated current:	0.14 ~ 7.5 A
Frequency range:	0.01 ~ 90 MHz

**WE-ZB**

Inductance:	4.7 ~ 120 μH
DCR:	0.02 ~ 0.2 Ω
Rated current:	0.5 A
Frequency range:	1 ~ 500 MHz

**WE-SD**

Inductance:	1.8 ~ 10 μH
DCR:	0.0018 ~ 0.03 Ω
Rated current:	5 ~ 20 A
Frequency range:	0.01 ~ 1000 MHz

Power inductors are recommended for switching regulator IC's of



## Power Inductors

**WE-FI**

Inductance:	8.2 ~ 860 μH
DCR:	0.01 ~ 0.4 Ω
Rated current:	0.4 ~ 5 A
Frequency range:	0.01 ~ 0.1 MHz

**WE-GI**

Inductance:	33 ~ 470 μH
DCR:	30 ~ 320 mΩ
Rated current:	1 ~ 3 A
Frequency range:	0.01 ~ 0.1 MHz

**WE-SI**

Inductance:	8 ~ 1000 μH
DCR:	0.008 ~ 0.7 Ω
Rated current:	0.5 ~ 5 A
Frequency range:	0.01 ~ 0.3 MHz

**WE-CPI**

Inductance:	4.7 ~ 10 μH
DCR:	0.2 ~ 0.35 Ω
Rated current:	1 ~ 1.5 A
Frequency range:	0.1 ~ 10 MHz

**WE-TPC**

Inductance:	1 ~ 1000 μH
DCR:	0.0065 ~ 5 Ω
Rated current:	160 ~ 8000 mA
Frequency range:	0.1 ~ 10 MHz

**WE-DD**

Inductance:	4.7 ~ 220 μH
DCR:	0.023 ~ 0.245 Ω
Rated current:	0.7 ~ 5.6 A
Frequency range:	0.1 ~ 10 MHz

**WE-DDF**

Inductance:	2x10 ~ 2x33 μH
DCR:	0.46 ~ 1.8 Ω
Rated current:	0.25 ~ 0.55 A
Frequency range:	0.1 ~ 10 MHz

**WE-PD**

Inductance:	0.47 ~ 1000 μH
DCR:	0.003 ~ 5.57 Ω
Rated current:	0.2 ~ 23.5 A
Frequency range:	0.1 ~ 10 MHz

**WE-PD2**

Inductance:	1 ~ 820 μH
DCR:	0.014 ~ 1.42 Ω
Rated current:	0.32 ~ 4 A
Frequency range:	0.1 ~ 10 MHz

**WE-PD3**

Inductance:	1 ~ 4700 μH
DCR:	0.014 ~ 15.51 Ω
Rated current:	0.01 ~ 3 A
Frequency range:	0.1 ~ 10 MHz

**WE-PD4**

Inductance:	1 ~ 10000 μH
DCR:	0.0016 ~ 39 Ω
Rated current:	0.07 ~ 18 A
Frequency range:	0.1 ~ 10 MHz

## SMD High Current Inductors

**WE-HC**

Inductance:	0.095 ~ 2.20 μH
DCR:	0.62 ~ 9.5 mΩ
Rated current:	9 ~ 25 A
Frequency range:	0.1 ~ 1 MHz

**WE-HCA**

Inductance:	0.15 ~ 4.7 μH
DCR:	0.62 ~ 14 mΩ
Rated current:	8 ~ 30 A
Frequency range:	0.1 ~ 2 MHz

**WE-HCF**

Inductance:	0.47 ~ 8.2 μH
DCR:	2.3 ~ 12.0 mΩ
Rated current:	7.2 ~ 16.5 A
Frequency range:	0.1 ~ 1 MHz

**WE-HCM**

Inductance:	0.2 μH
DCR:	0.55 mΩ
Rated current:	15 A
Frequency range:	0.1 ~ 1 MHz

**WE-HCT**

Inductance:	1.2 ~ 5.6 μH
DCR:	2.0 ~ 7.2 mΩ
Rated current:	6 ~ 16 A
Frequency range:	0.1 ~ 1 MHz

## Common Mode Chokes

**WE-SLM**

Inductance:	11 ~ 51 μH
DCR:	0.18 ~ 0.32 Ω
Rated current:	300 mA

**WE-SL**

Inductance:	2x35 ~ 4x1000 μH
DCR:	0.035 ~ 0.4 Ω
Rated current:	0.35 ~ 2.7 A
Frequency range:	0.01 ~ 9 MHz

**WE-SL1**

Inductance:	2x10 ~ 2x330 μH
DCR:	0.16 ~ 0.3 Ω
Rated current:	300 mA
Frequency range:	9 ~ 600 MHz

**WE-SL2**

Inductance:	10 ~ 6500 μH
DCR:	0.08 ~ 0.95 Ω
Rated current:	0.4 ~ 1.6 A
Frequency range:	0.01 ~ 9 MHz

**WE-SL3**

Inductance:	3x20 ~ 2x100 μH
DCR:	0.16 ~ 0.28 Ω
Rated current:	500 ~ 700 mA
Frequency range:	9 ~ 600 MHz

## Common Mode Chokes

**WE-SL5**

Inductance:	2x120 ~ 2x4700 μH
DCR:	0.025 ~ 0.72 Ω
Rated current:	350 ~ 2500 mA
Frequency range:	9 ~ 600 MHz

**WE-VB2**

Inductance:	15 ~ 80 μH
DCR:	0.035 ~ 0.060 Ω
Rated current:	0.5 A
Frequency range:	1 ~ 500 MHz

**WE-VB**

Inductance:	15 ~ 80 μH
DCR:	0.035 ~ 0.060 Ω
Rated current:	0.5 A
Frequency range:	1 ~ 500 MHz

**WE-CMB**

Inductance:	1 ~ 39 mH
DCR:	7 ~ 3000 mΩ
Rated current:	0.3 ~ 12 A
Frequency range:	0.1 ~ 10 MHz

**WE-LF**

Inductance:	0.4 ~ 50 mH
DCR:	0.02 ~ 2.6 Ω
Rated current:	0.3 ~ 6 A
Frequency range:	0.1 ~ 10 MHz

**WE-CNSW**

Impedance at 100 MHz:	67 ~ 2200 Ω
DCR:	0.25 ~ 1.2 Ω
Rated current:	200 ~ 400 mA
Frequency range:	10 ~ 1000 MHz

## Transformers

**WE-LAN**

compliant with IEEE 802.3 standards
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**WE-FLEX**

suitable for all switch mode power supply topologies like: Buck-Converter, Boost-Converter, SEPIC-Converter, Flyback-Converter, Forward-Converter and Push-Pull-Converter
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**WE-PoE**

suitable for Power over Ethernet ICs
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## RF Inductors

**WE-KI**

Inductance:	1 ~ 47000 nH
Sizes:	0402, 0603, 0805, 1008
Frequency range:	90 ~ 5000 MHz
Also available:	WE-KIHC for high current, WE-KIHQ for high Q, WE-KIL with low profile

**WE-TCI**

Inductance:	1 ~ 100 nH
Sizes:	0402, 0603
Frequency range:	90 ~ 5000 MHz

**WE-MK**

Inductance:	1 ~ 680 nH
Sizes:	0201, 0402, 0603, 0805
Frequency range:	70 ~ >10000 MHz

## LTCC Components

**WE-LPF**

Frequency range:	880 ~ 5875 MHz
Sizes:	0603, 0805, 1206

**WE-BPF**

Frequency range:	2400 ~ 5920 MHz
Sizes:	0805, 1008, 1206, 1210

**WE-BAL**

Frequency range:	800 ~ 5875 MHz
Sizes:	0603, 0805, 1206

**WE-BPFB**

Frequency range:	2400 ~ 2500 MHz
Size:	1008

**WE-MCA**

Frequency range:	880 ~ 5875 MHz
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