

Filter choke for switching power supplies

The chokes are wound onto iron powder cores. They have a distributed air gap which gives many advantages, especially small losses, little interference field and small dimensions. They are dimensioned for 40 kHz but can, depending upon superimposed ripple current, be used in applications of up to 100 kHz. The rated inductance is specified at rated current and with 10% ripple current.



Type	A	B	Rated current	Rated inductance	Series resistance	Wire Ø
TI-53100 250UH/0.5A	20 mm	8 mm	0.5 A	250 µH	0.77 Ω	0.25 mm
TI-53101 1000UH/0.5A	20 mm	8 mm	0.5 A	1 mH	1.67 Ω	0.25 mm
TI-53102 2500UH/0.5A	20 mm	9 mm	0.5 A	2.5 mH	3 Ω	0.25 mm
TI-53103 2500UH/0.5A	27 mm	12 mm	0.5 A	2.5 mH	3 Ω	0.25 mm
TI-53104 1000UH/1A	27 mm	12 mm	1 A	1 mH	0.82 Ω	0.4 mm
TI-53106 2500UH/1A	32 mm	15 mm	1 A	2.5 mH	1 Ω	0.45 mm
TI-53108 630UH/1.6A	27 mm	12 mm	1.6 A	630 µH	0.45 Ω	0.5 mm
TI-53112 400UH/2.5A	32 mm	15 mm	2.5 A	400 µH	0.18 Ω	0.71 mm
TI-53113 1000UH/2.5A	46 mm	19 mm	2.5 A	1 mH	0.28 Ω	0.8 mm
TI-53114 400UH/3.15A	38 mm	16 mm	3.15 A	400 µH	0.13 Ω	0.8 mm
TI-53115 1600UH/3.15A	52 mm	24 mm	3.15 A	1.6 mH	0.23 Ω	1 mm
TI-53116 100UH/4A	27 mm	12 mm	4 A	100 µH	0.07 Ω	0.8 mm
TI-53117 250UH/4A	38 mm	16 mm	4 A	250 µH	0.085 Ω	0.95 mm
TI-53119 1000UH/4A	52 mm	24 mm	4 A	1 mH	0.15 Ω	1.12 mm
TI-53120 250UH/5A	46 mm	19 mm	5 A	250 µH	0.07 Ω	1.12 mm
TI-53122 100UH/6.3A	38 mm	16 mm	6.3 A	100 µH	0.035 Ω	1.12 mm
TI-53123 160UH/6.3A	46 mm	19 mm	6.3 A	160 µH	0.045 Ω	1.25 mm
TI-53125 100UH/10A	52 mm	24 mm	10 A	100 µH	0.02 Ω	1.12* mm
TI-53127 25UH/25A	52 mm	24 mm	25 A	25 µH	0.04 Ω	2* mm

* Dual wire (ex 2 x 1.12 mm)

