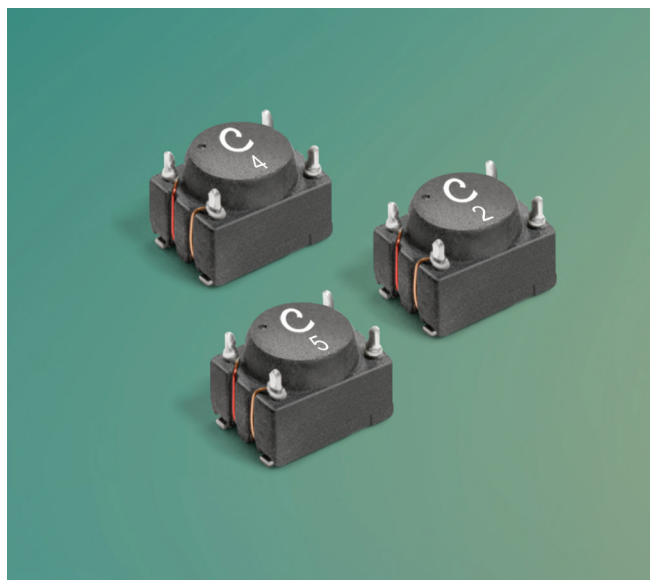


SMT 4.5 ST448RFT



- Current-compensated ring core double choke
- Miniature footprint; less than 5 mm tall
- Exceptional common mode noise attenuation
- 250 Vrms, one minute isolation (hipot) between windings

Core material Ferrite

Terminations RoHS compliant matte tin over nickel over phos-bronze

Weight 78 – 86 mg

Ambient temperature –40°C to +85°C with Irms current

Maximum part temperature +105°C (ambient + temp rise)

Storage temperature Component: –55°C to +105°C.

Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 600/7" reel Plastic tape: 12 mm wide, 0.4 mm thick, 8 mm pocket spacing, 3.43 mm pocket depth

Part number ¹	Common mode impedance max (kOhms)	Cutoff frequency ² (MHz)	Inductance (mH) ³		Test frequency (kHz)	Irms ⁴ (mA)	DCR (Ohms) ⁵		Leakage inductance max (µH)	Value Marking
			nom	min			nom	max		
ST448RFT513BLZ	2.01 @ 61 MHz	670	0.051	0.0357	100	370	0.250	0.320	0.100	5
ST448RFT513SLZ	1.92 @ 99 MHz	28	0.051	0.0357	100	370	0.250	0.320	1.600	6
ST448RFT104BLZ	0.64 @ 9.7 MHz	900	0.100	0.070	100	500	0.150	0.200	0.070	1
ST448RFT224BLZ	1.40 @ 13 MHz	650	0.220	0.154	100	400	0.200	0.270	0.080	2
ST448RFT334BLZ	1.96 @ 9.6 MHz	520	0.330	0.231	100	370	0.250	0.320	0.100	3
ST448RFT474BLZ	3.04 @ 9.6 MHz	490	0.470	0.329	100	350	0.320	0.380	0.130	4

1. When ordering, please specify **testing** code:

ST448RFT474BLZ

Termination: L = RoHS compliant matte tin over nickel over phos-bronze.

Testing: Z = Unscreened

H = Group A screening per Coilcraft CP-SA-10001

All screening performed to the document's latest revision
Custom screening also available

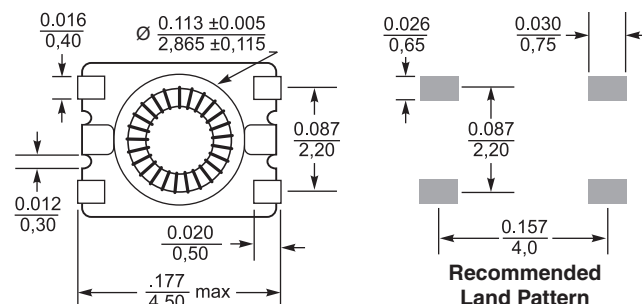
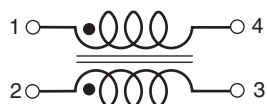
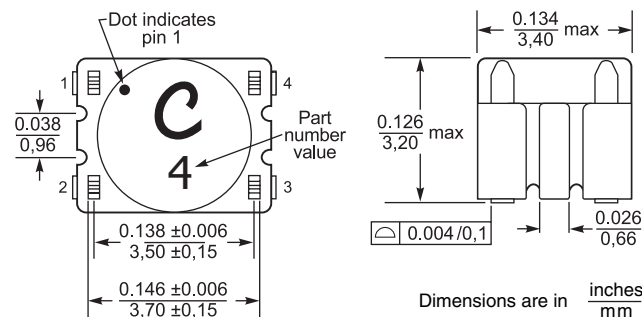
3. Inductance is for each winding, measured at test frequency using a

Voltech AT3600 or equivalent.

4. Current that causes a 20°C temperature rise from 25°C ambient.

5. DCR is specified per winding.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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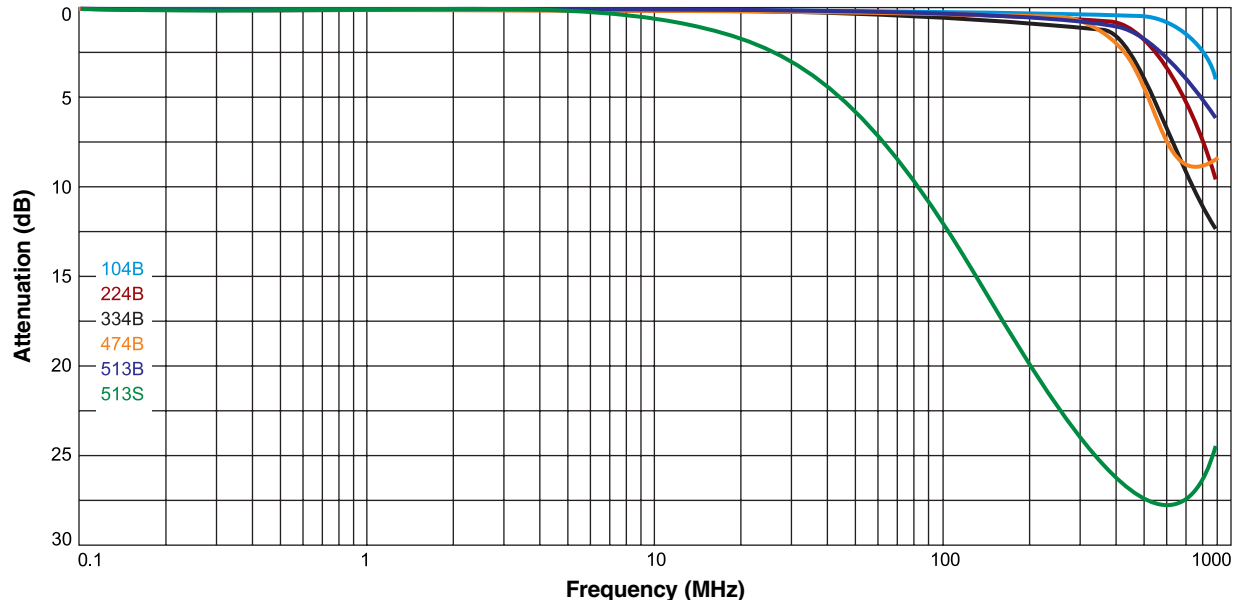
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.



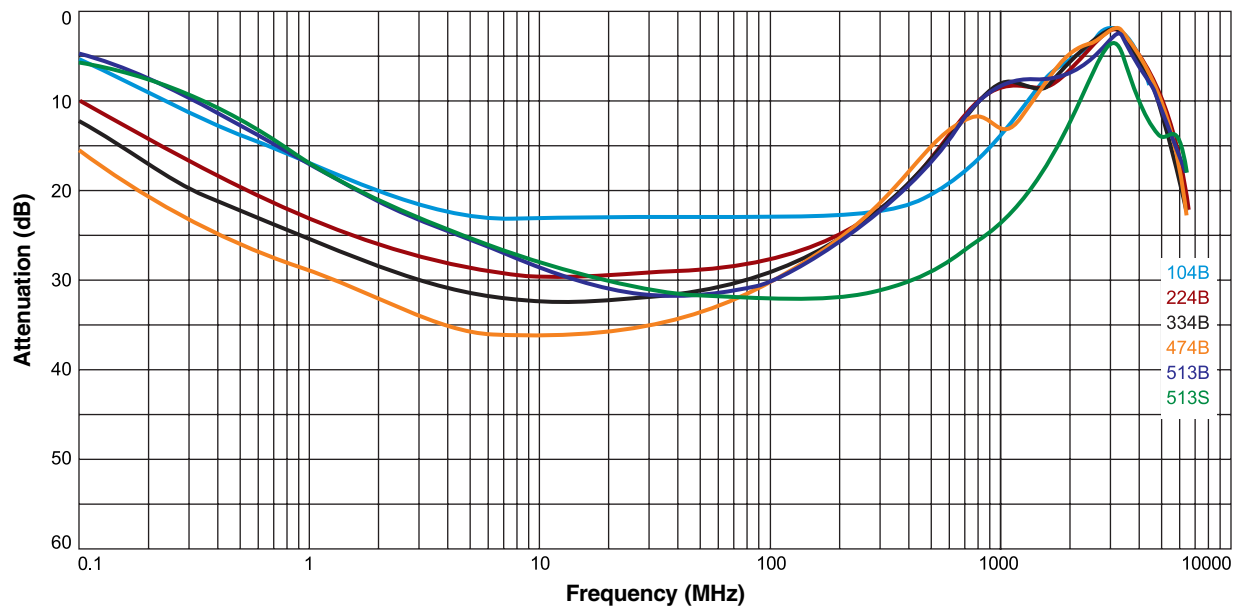
SMT Data Line EMI Filters – ST448RFT

Attenuation vs Frequency

Differential Mode



Common Mode

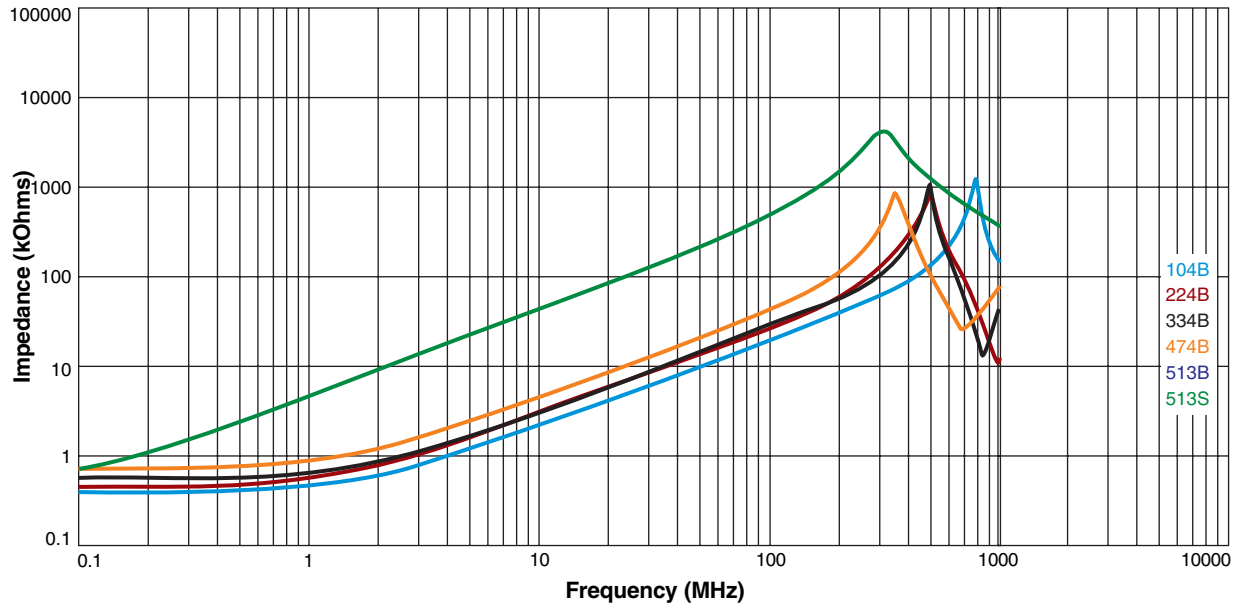




SMT Data Line EMI Filters – ST448RFT

Impedance vs Frequency

Differential Mode



Common Mode

