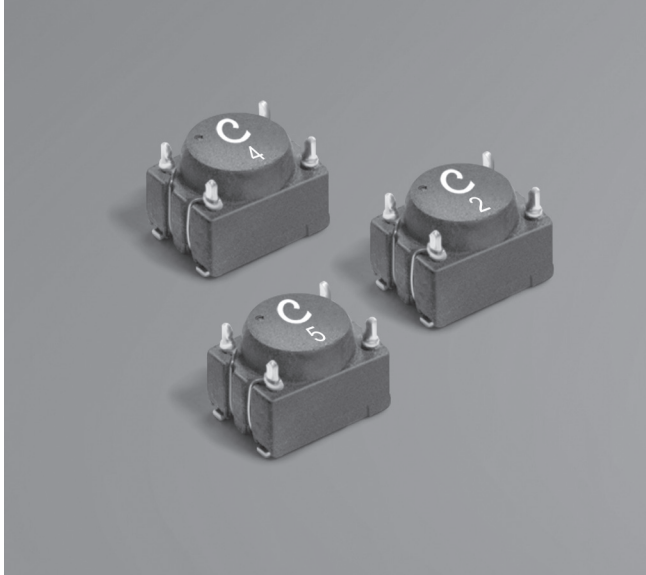


SMT Data Line EMI Filters DFT4532



- Current-compensated ring core double choke
- Miniature footprint; less than 3.2 mm tall
- Exceptional common mode noise attenuation
- AEC-Q200 Grade 3 (–40°C to +85°C)
- 250 Vrms, one minute isolation (hipot) between windings

Core material Ferrite

Environmental RoHS compliant

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: –40°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)

Packaging 600/7" reel; 2000/13" reel Plastic tape: 12 mm wide, 0.4 mm thick, 8 mm pocket spacing, 3.43 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Common mode impedance max (kOhms)	Cutoff frequency ² (MHz)	Inductance ³ (mH)		Test frequency (kHz)	Irms ⁴ (mA)	DCR (Ohms) ⁵		Leakage inductance max (μH)	Value Marking
			nom	min			nom	max		
DFT4532-513BL_	2.01 @ 61 MHz	670	0.051	0.0357	100	370	0.250	0.320	0.100	5
DFT4532-513SL_	1.92 @ 99 MHz	28	0.051	0.0357	100	370	0.250	0.320	1.600	6
DFT4532-104BL_	0.64 @ 9.7 MHz	900	0.100	0.070	100	500	0.150	0.200	0.070	1
DFT4532-224BL_	1.40 @ 13 MHz	650	0.220	0.154	100	400	0.200	0.270	0.080	2
DFT4532-334BL_	1.96 @ 9.6 MHz	520	0.330	0.231	100	370	0.250	0.320	0.100	3
DFT4532-474BL_	3.04 @ 9.6 MHz	490	0.470	0.329	100	350	0.320	0.380	0.130	4

1. When ordering, please specify **termination** and **packaging** code:

DFT4532-474BLC

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

Special order, add cost: S = non-RoHS tin-lead (63/37)

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge)

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (2000 parts per full reel).

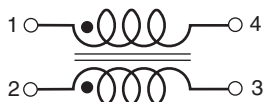
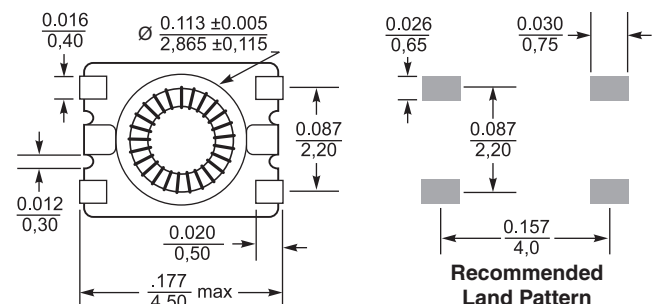
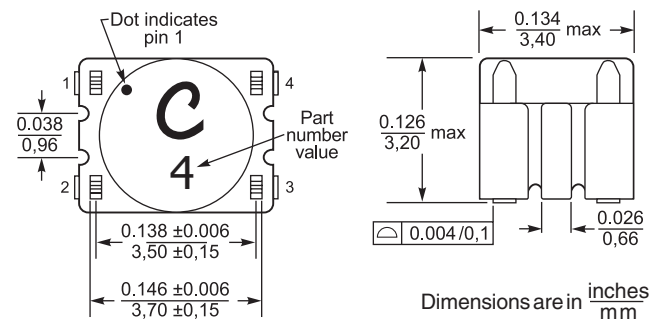
2. Frequency at which the differential mode attenuation equals 3 dB

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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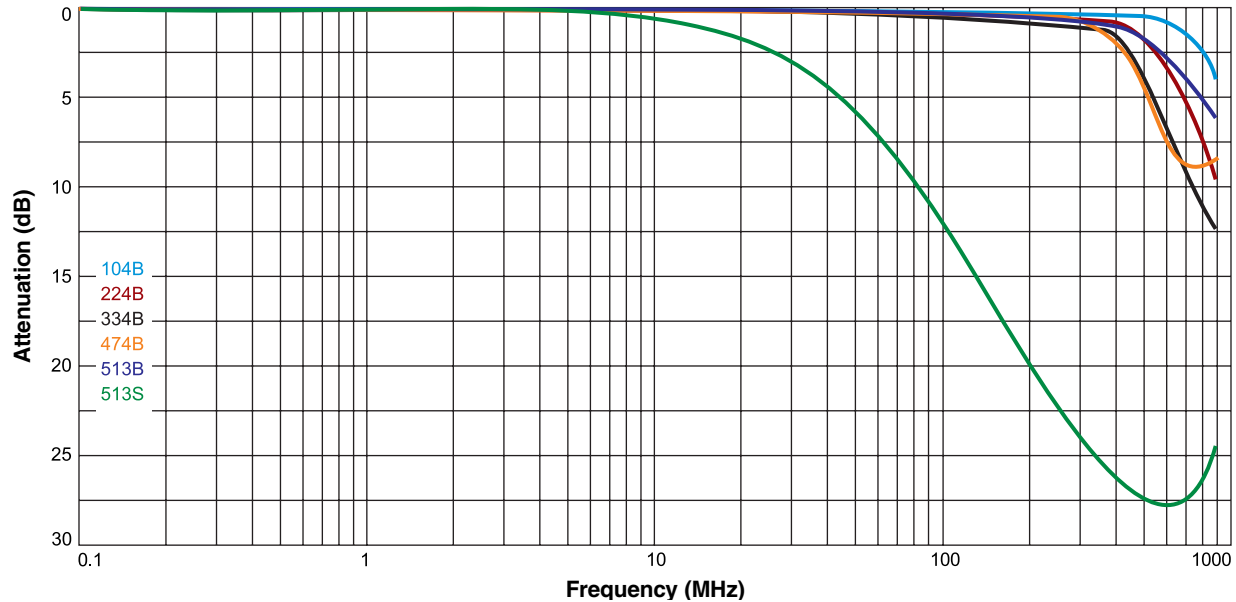
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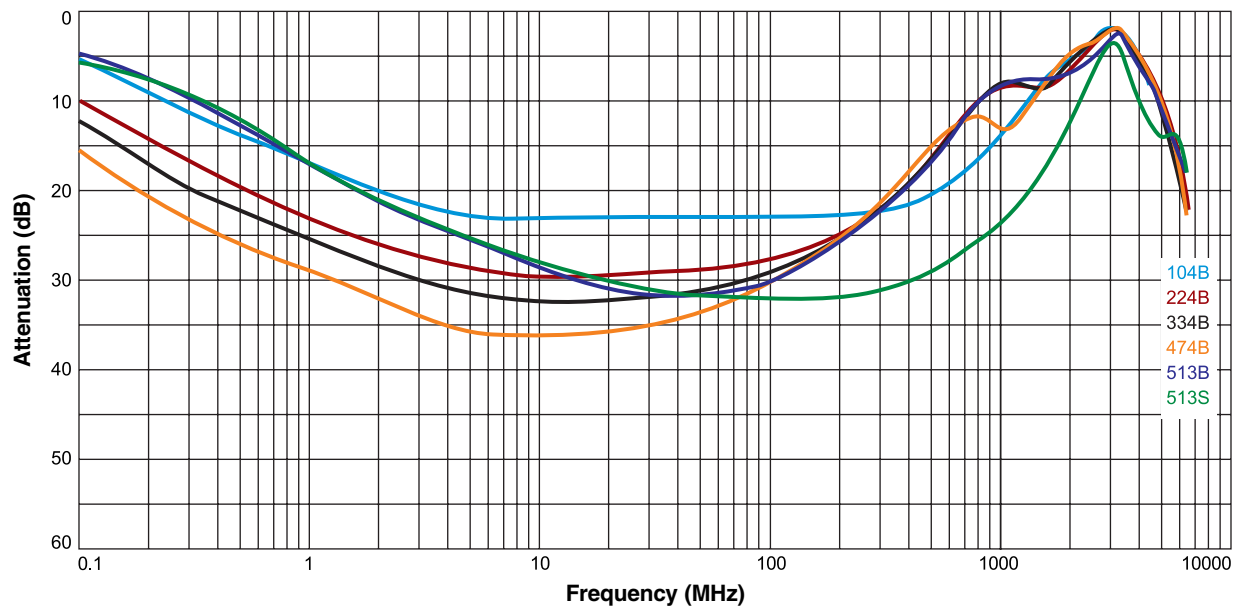
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Attenuation vs Frequency

Differential Mode



Common Mode



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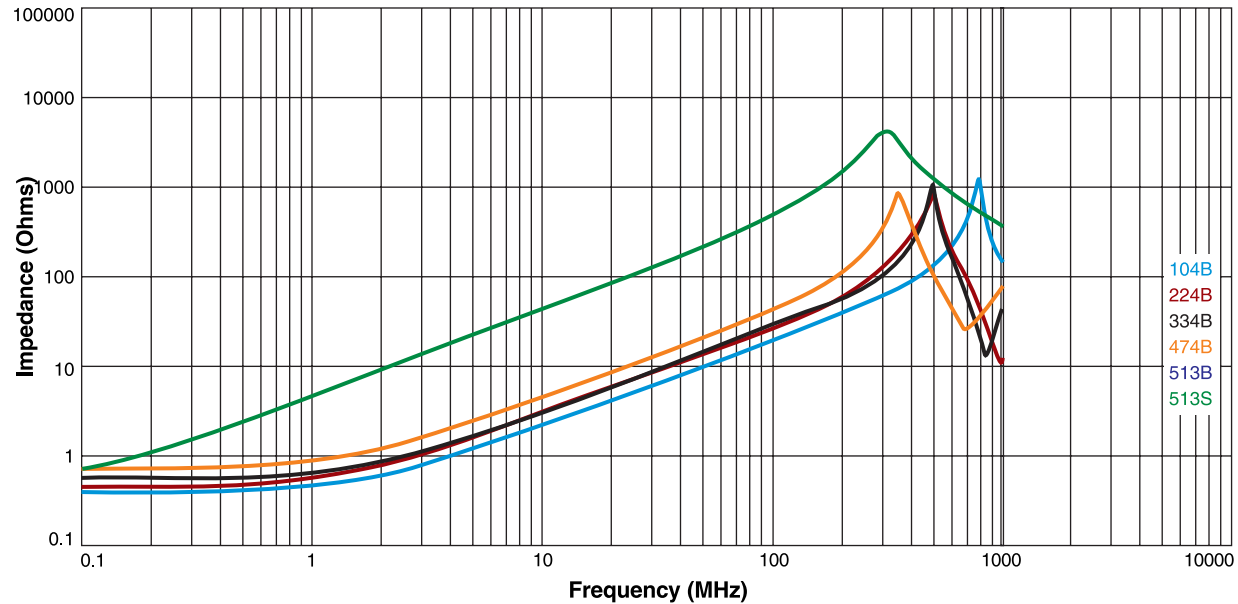
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SMT Data Line EMI Filters – DFT4532

Impedance vs Frequency

Differential Mode



Common Mode

