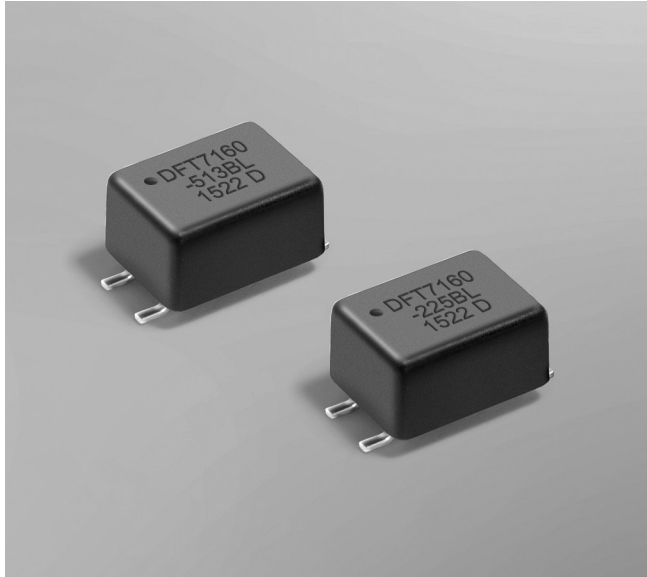


SMT Data Line EMI Filters DFT7160



- 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
Environmental RoHS compliant
Terminations RoHS compliant matte tin over nickel over phos-bronze
Weight 225 – 270 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 250/7" reel; 1000/13" reel Plastic tape: 16 mm wide, 0.4 mm thick, 12 mm pocket spacing, 4.8 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 (mH) ³		Test frequency (kHz)	Irms ⁴ (mA)	DCR max ⁵ (Ohms)	Leakage inductance max (µH)
			nom	min				
DFT7160-513SL_	3.97 @ 69 MHz	25	0.051	0.0357	100	700	0.300	1.69
DFT7160-513BL_	4.00 @ 55 MHz	570	0.051	0.0357	100	700	0.300	0.091
DFT7160-474BL_	2.42 @ 7.5 MHz	410	0.47	0.329	100	1000	0.210	0.085
DFT7160-105BL_	3.12 @ 6.0 MHz	420	1.0	0.700	10	900	0.210	0.104
DFT7160-225BL_	6.66 @ 4.7 MHz	670	2.2	1.54	10	600	0.500	0.156
DFT7160-475BL_	13.47 @ 3.0 MHz	440	4.7	3.29	10	500	0.600	0.260

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

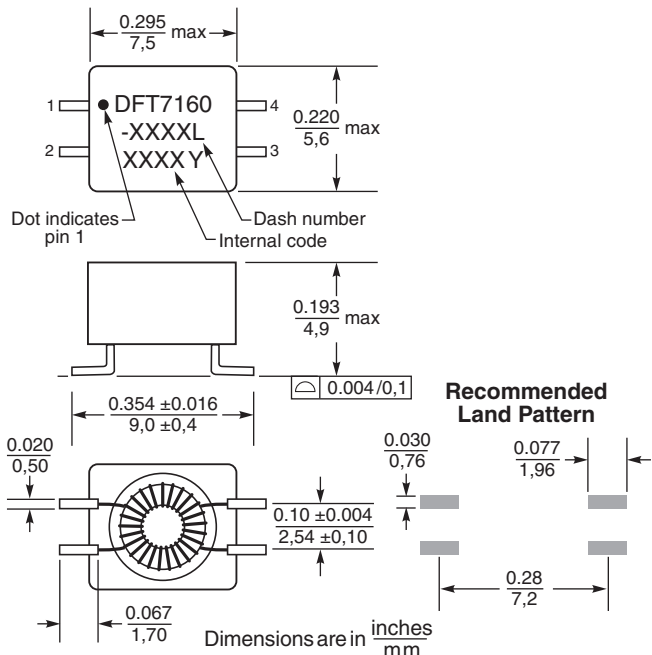
DFT7160-475BLC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).

- Frequency at which the differential mode attenuation equals 3 dB.
 - Inductance is for each winding, measured at test frequency using an Agilent/HP 4286A impedance analyzer and a Coilcraft SMD-A fixture
 - Current that causes a 20°C temperature rise from 25°C ambient.
 - DCR is specified per winding.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

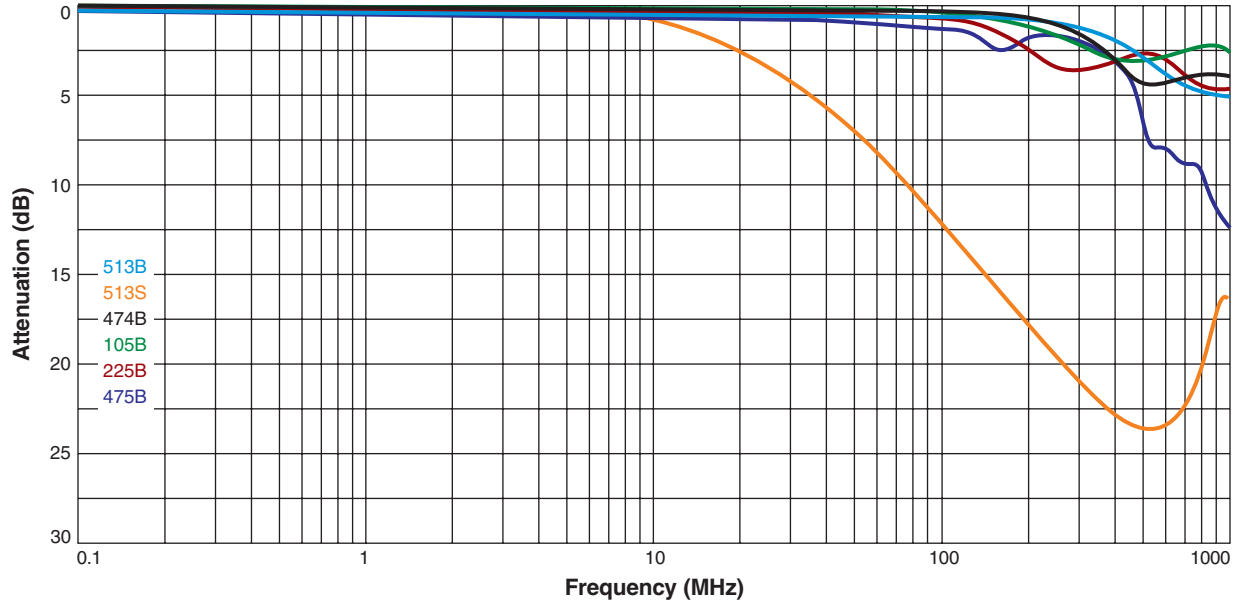




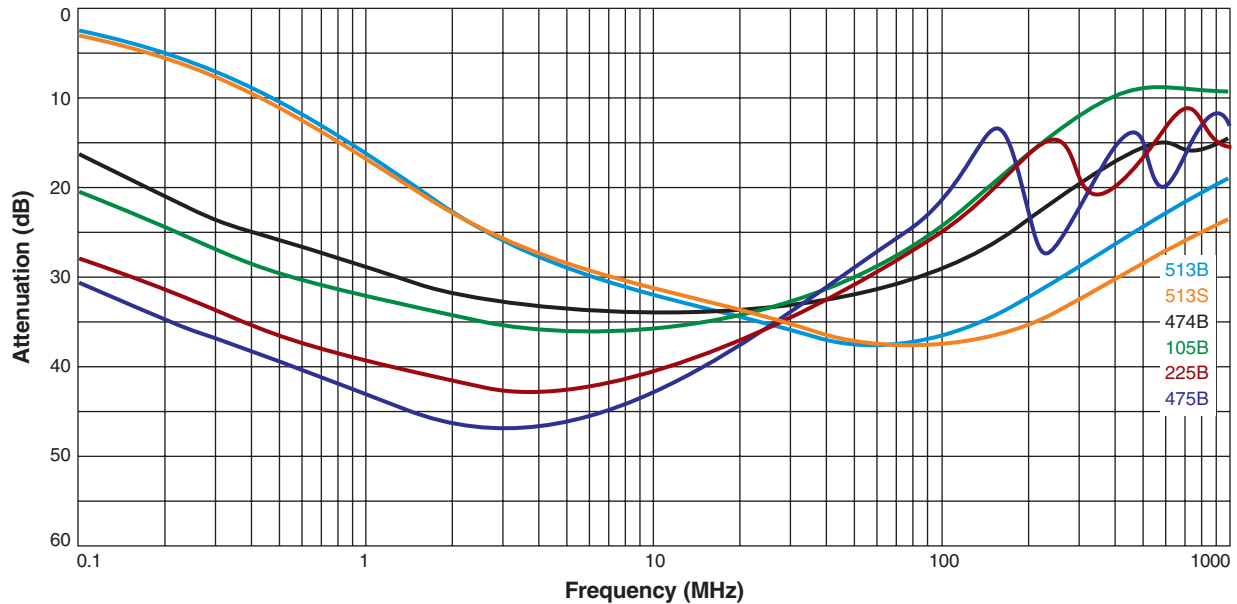
SMT Data Line EMI Filters – DFT7160

Attenuation vs Frequency

Differential Mode



Common Mode

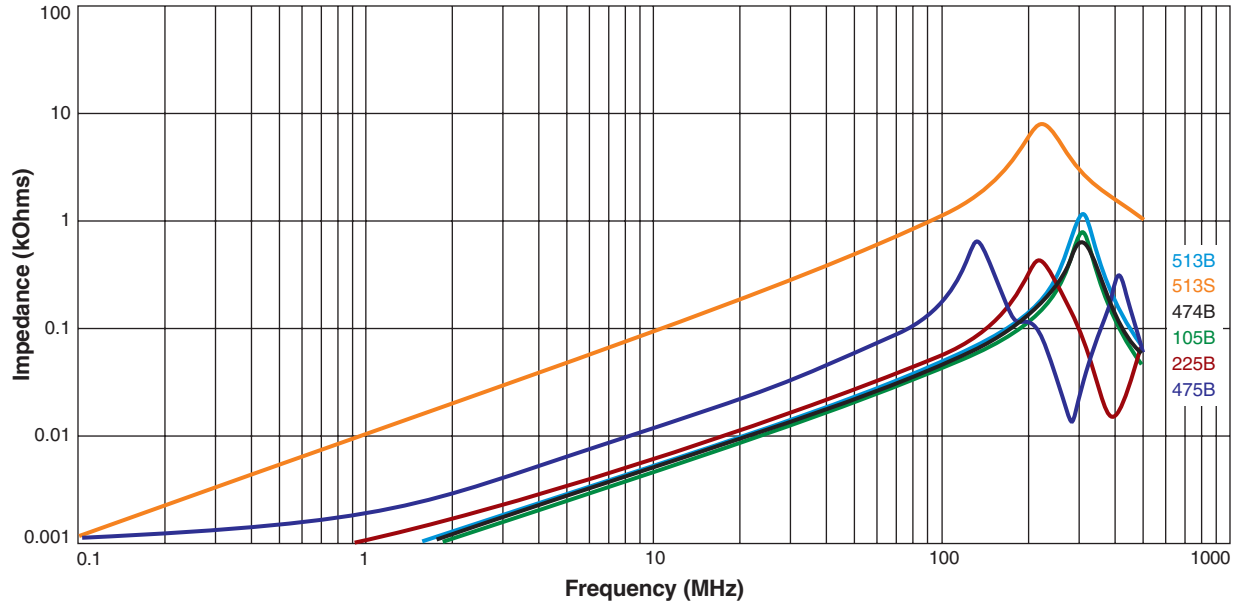




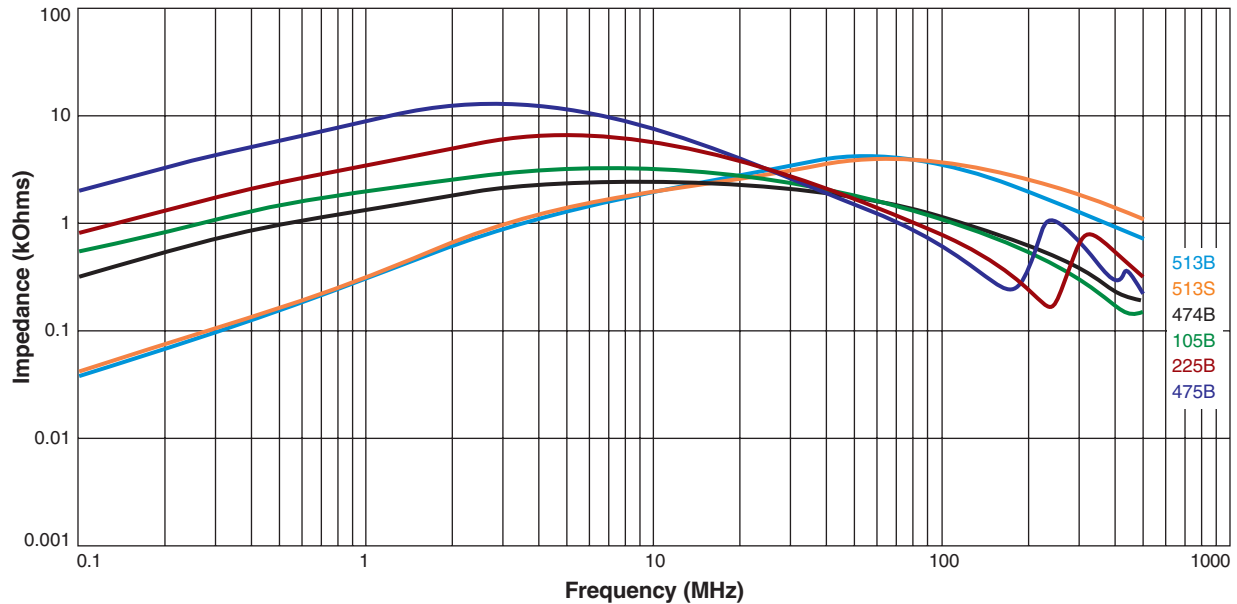
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Impedance vs Frequency

Differential Mode



Common Mode



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