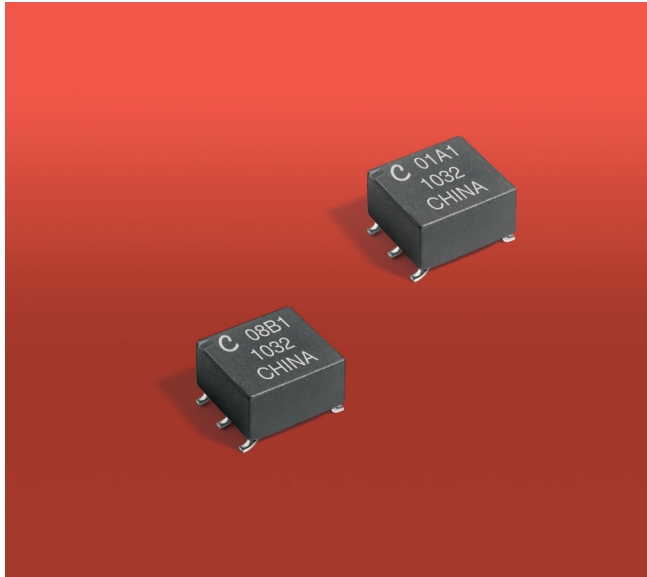


High Reliability Wideband Transformers



- Small wideband transformer: 7.2 × 6.43 × 4.45 mm high
- 300 V interwinding isolation, 1/4 Watt RF input power
- 250 mA max current rating.

Core material Ferrite

Terminations tin-silver-copper over tin over nickel over phos bronze.

Weight 200 –230 mg

Ambient temperature –55°C to +125°C

Maximum part temperature +125°C (ambient + temp rise).

Storage temperature Component: –55°C to +125°C.

Tape and reel packaging: –55°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)

Enhanced crush-resistant packaging 250/7"reel

Plastic tape: 12 mm wide, 0.3 mm thick, 8 mm pocket spacing, 2.9 mm pocket depth

Part number ¹	Schematic	Impedance ratio ² pri:sec	Bandwidth (MHz)	Insertion loss max (dB)	Pins 1-3 (primary)		Pins 6-4 (secondary)	
					L min ³ (µH)	DCR max ⁴ (mOhm)	L min ³ (µH)	DCR max ⁴ (mOhm)
ML520RFA01A1LZ	1	1 : 1	0.045 – 365	0.25	60	130	60	130
ML520RFA01B1LZ	2	1 : 1	0.045 – 365	0.25	60	130	60	130
ML520RFA02B1LZ	2	1 : 2	0.045 – 495	0.25	60	130	140	180
ML520RFA03B1LZ	2	1 : 3	0.075 – 425	0.35	40	120	140	180
ML520RFA04B1LZ	2	1 : 4	0.120 – 440	0.60	25	90	100	160
ML520RFA08B1LZ	2	1 : 8	0.105 – 300	0.60	25	90	180	180
ML520RFA09B1LZ	2	1 : 9	0.075 – 200	0.30	40	120	420	250
ML520RFA16B1LZ	2	1 : 16	0.105 – 135	0.60	25	90	420	250

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

ML520RFA16B1LZ

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

2. Impedance ratio is for the full primary winding to the full secondary winding.

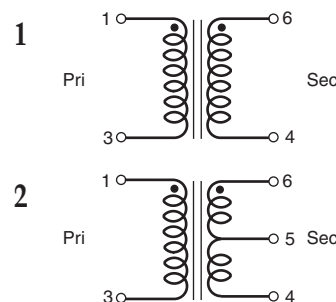
3. Inductance measured at 100 kHz, 0.1 V, 0 Adc on an Voltech AT3600 or equivalent.

4. DCR measured on a Voltech AT3600 or equivalent.

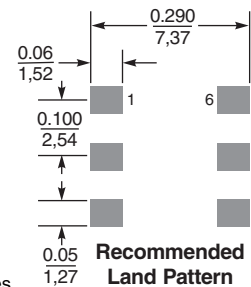
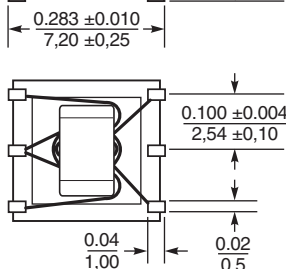
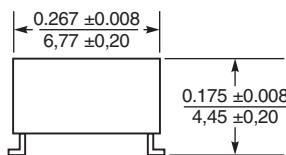
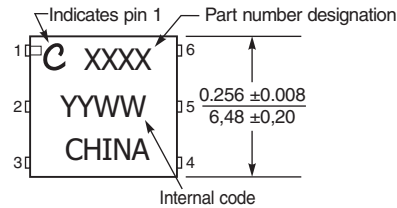
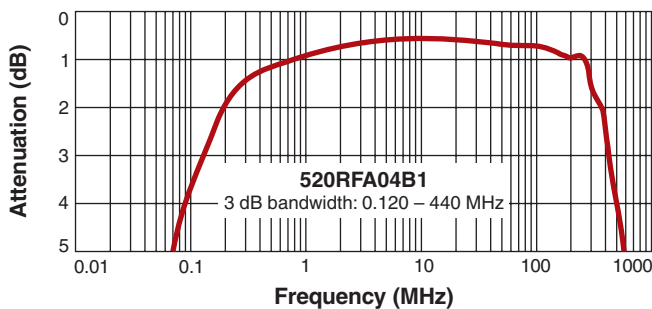
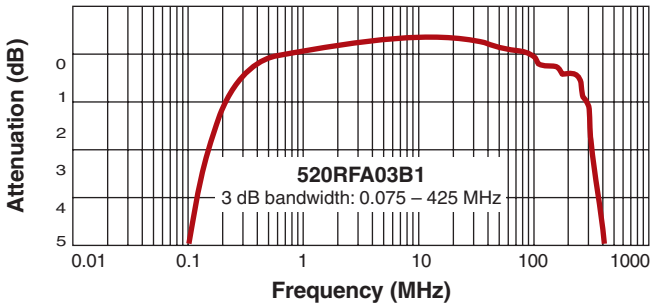
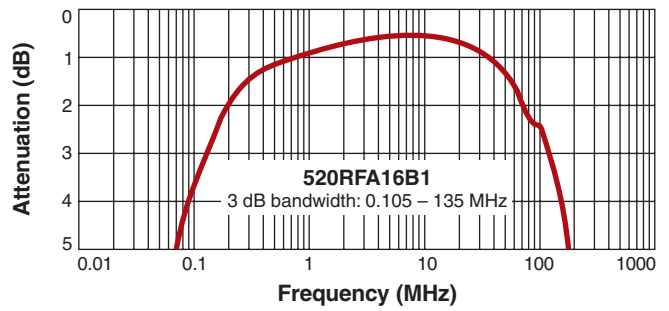
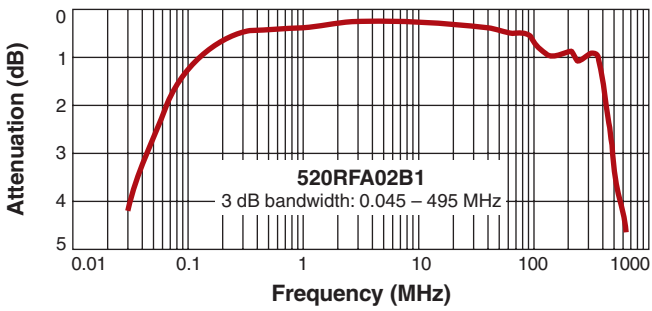
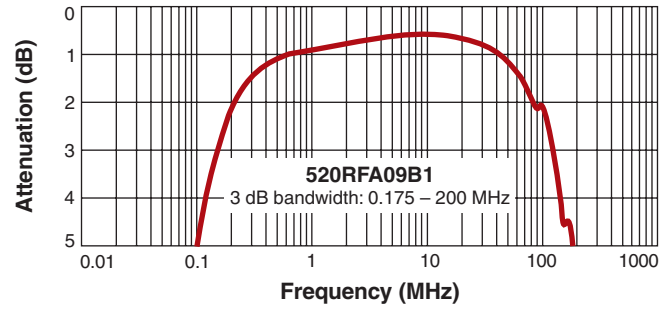
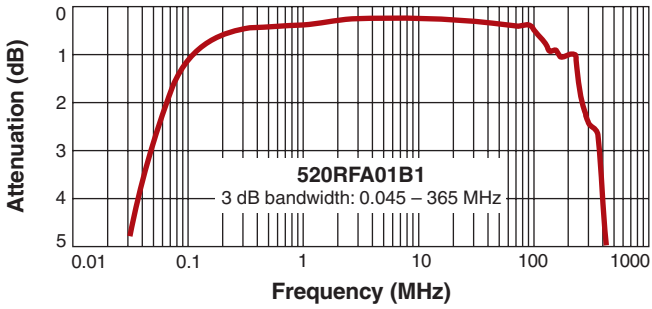
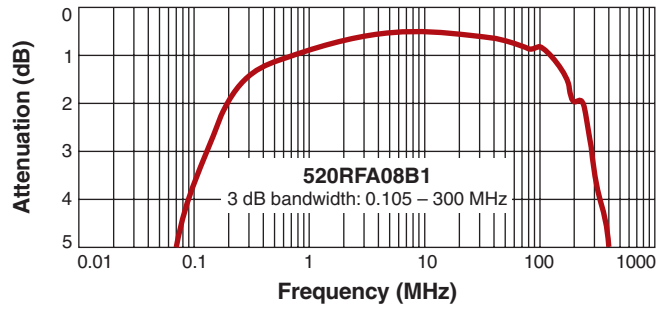
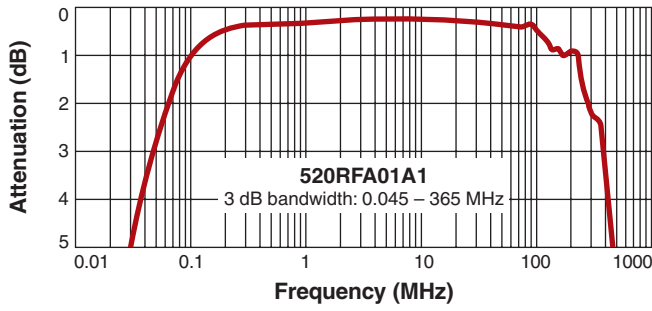
5. Electrical specifications at 25°C.

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

Schematics



ML520RFA Series



Dimensions are in inches/mm

Document ML099-2 Revised 02/20/18



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