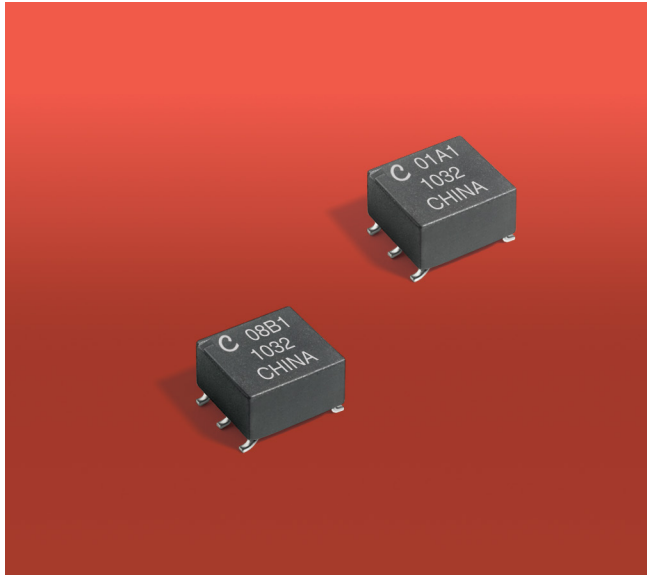


# High Reliability Wideband Transformers



- 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 <sup>1</sup>	Schematic	Impedance ratio <sup>2</sup> pri:sec	Bandwidth (MHz)	Insertion loss max (dB)	Pins 1-3 (primary)		Pins 6-4 (secondary)	
					L min <sup>3</sup> (µH)	DCR max <sup>4</sup> (mOhm)	L min <sup>3</sup> (µH)	DCR max <sup>4</sup> (mOhm)
ML520RFA01A1LZ	A	1 : 1	0.045 – 365	0.25	60	130	60	130
ML520RFA01B1LZ	B	1 : 1	0.045 – 365	0.25	60	130	60	130
ML520RFA02B1LZ	B	1 : 2	0.045 – 495	0.25	60	130	140	180
ML520RFA03B1LZ	B	1 : 3	0.075 – 425	0.35	40	120	140	180
ML520RFA04B1LZ	B	1 : 4	0.120 – 440	0.60	25	90	100	160
ML520RFA08B1LZ	B	1 : 8	0.105 – 300	0.60	25	90	200	180
ML520RFA09B1LZ	B	1 : 9	0.075 – 200	0.30	40	120	500	250
ML520RFA16B1LZ	B	1 : 16	0.105 – 135	0.60	25	90	500	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.

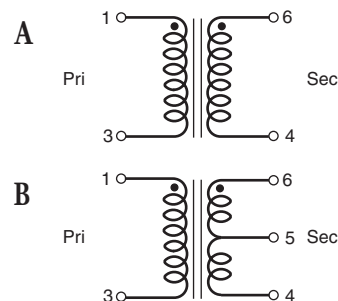
3. Inductance measured at 100 kHz, 0.1 V, 0 Adc on an Voltech AT3600 or equivalent.

4. DCR measured on a Voltech AT3600 or equivalent.

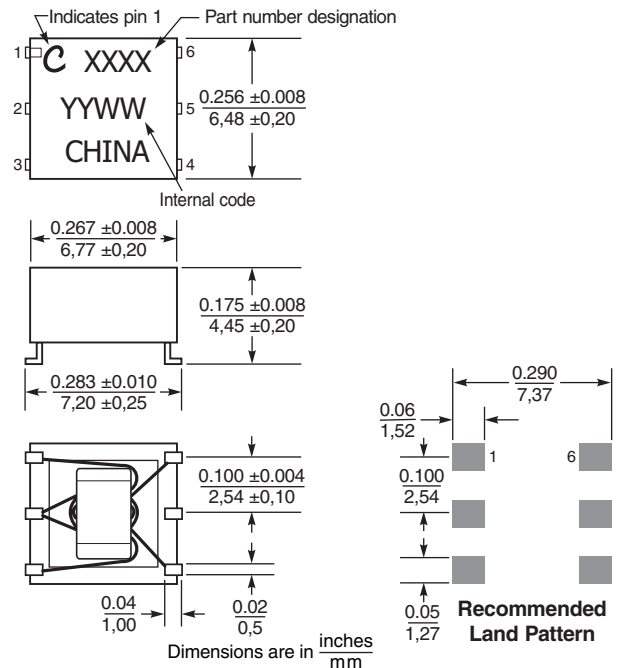
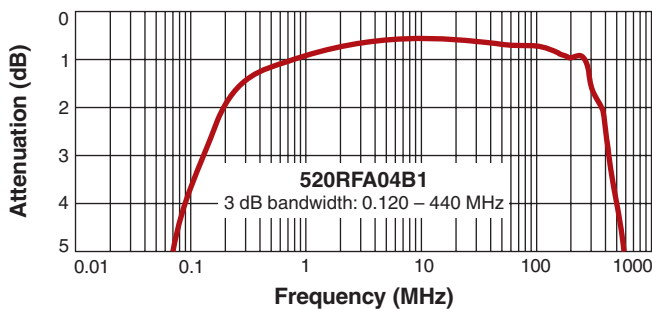
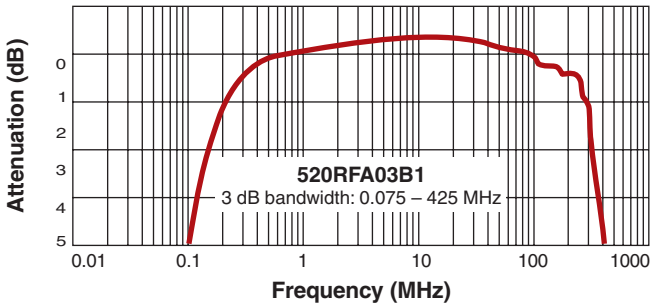
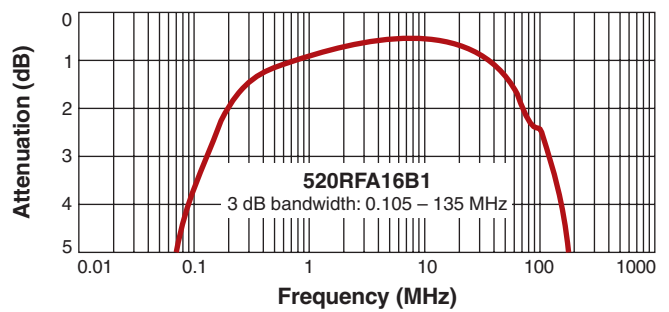
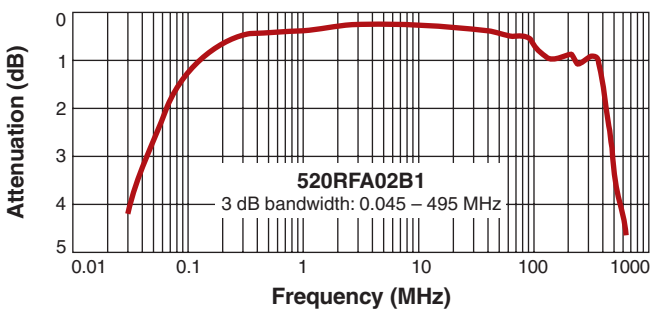
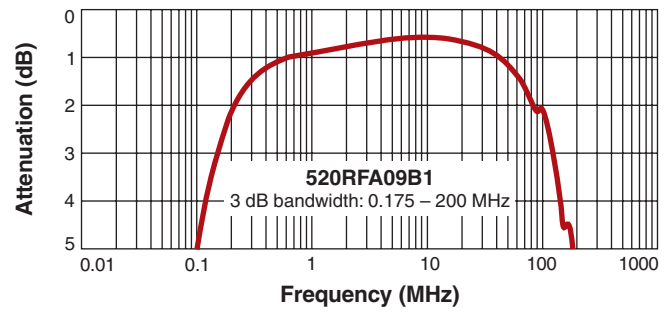
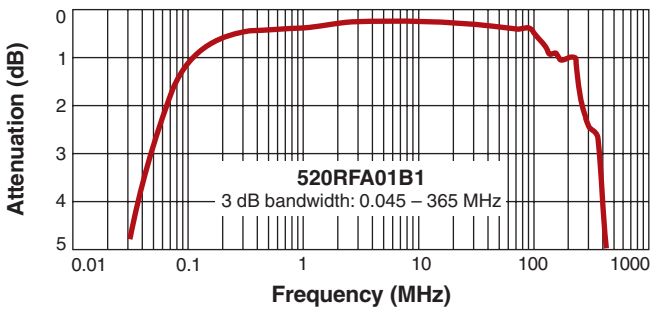
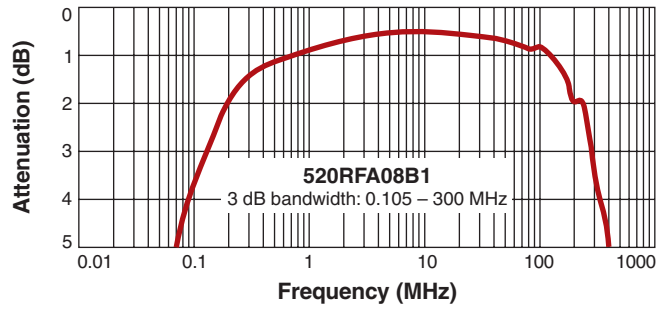
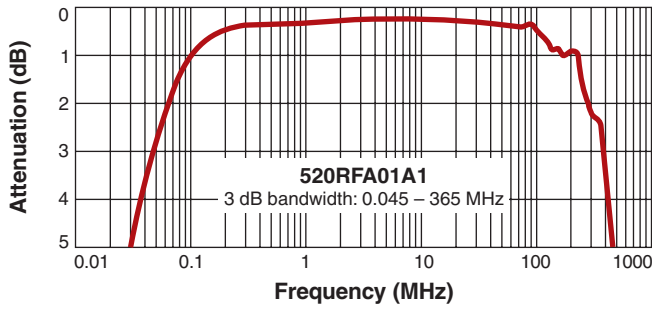
5. Electrical specifications at 25°C.

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

## Schematics



# ML520RFA Series



1102 Silver Lake Road  
Cary, IL 60013  
Phone 800-981-0363

Fax 847-639-1508  
Email cps@coilcraft.com  
www.coilcraft-cps.com

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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.