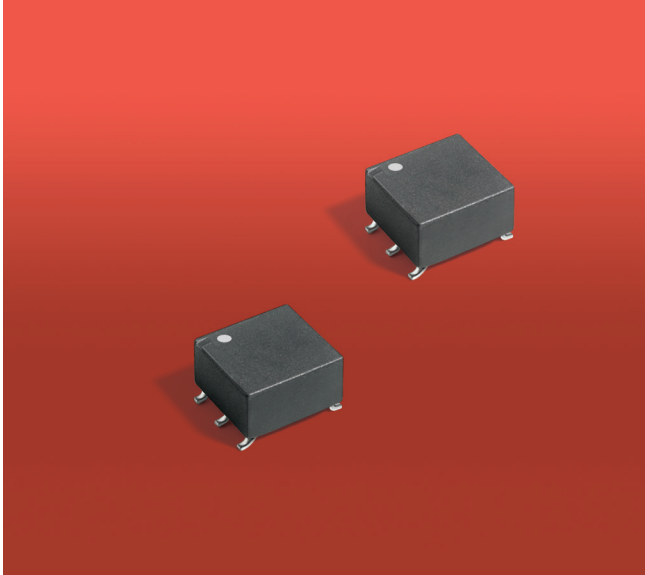


Outgassing Compliant Wideband Transformers



- Small wideband transformer: 7.2 × 6.43 × 4.45 mm high
- Passes NASA low outgassing specifications
- 300 V interwinding isolation, 1/4 Watt RF input power
- 250 mA max current rating
- Tin-lead terminations for the best possible board adhesion

Core material Ferrite

Terminations tin-lead 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)
AE520RFA01A1SZ	1	1 : 1	0.045 – 365	0.25	60	130	60	130
AE520RFA01B1SZ	2	1 : 1	0.045 – 365	0.25	60	130	60	130
AE520RFA02B1SZ	2	1 : 2	0.045 – 495	0.25	60	130	140	180
AE520RFA03B1SZ	2	1 : 3	0.075 – 425	0.35	40	120	140	180
AE520RFA04B1SZ	2	1 : 4	0.120 – 440	0.60	25	90	100	160
AE520RFA08B1SZ	2	1 : 8	0.105 – 300	0.60	25	90	180	180
AE520RFA09B1SZ	2	1 : 9	0.075 – 200	0.30	40	120	420	250
AE520RFA16B1SZ	2	1 : 16	0.105 – 135	0.60	25	90	420	250

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

AE520RFA16B1SZ

Screening: Z = Unscreened

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

1 = EEE-INST-002 level 1

2 = EEE-INST-002 level 2

3 = EEE-INST-002 level 3

4 = MIL-STD-981 Class B

5 = MIL-STD-981 Class S

F = Screening per ESCC 3201

All screening performed to the document's latest revision

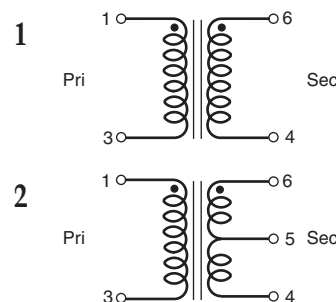
Custom screening also available

Note: Screening T and U have been replaced with more detailed codes 4, 5, and 1, 2, 3, respectively. Codes T and U can still be used, if necessary.

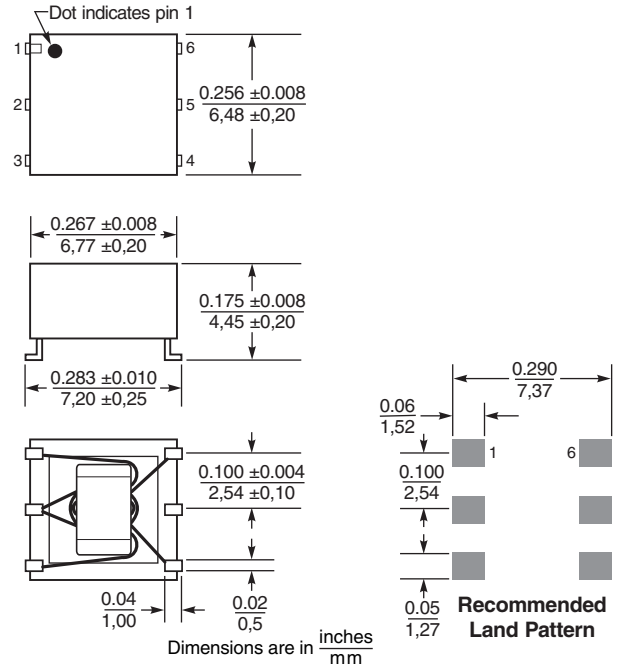
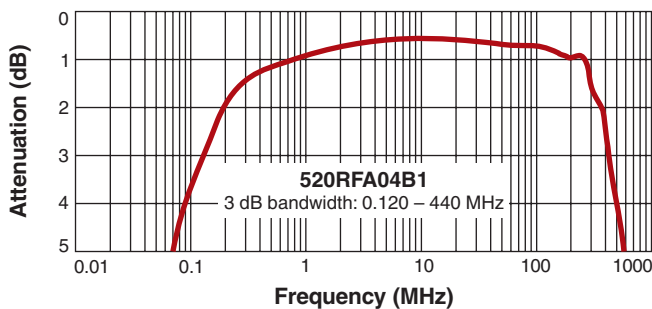
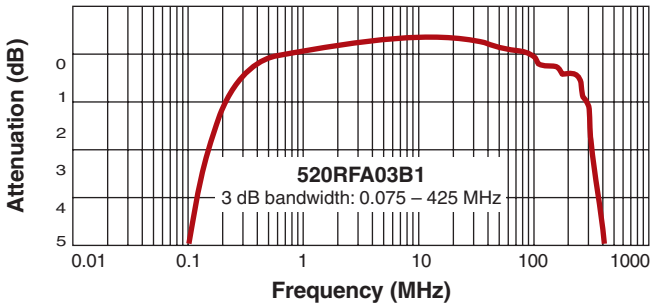
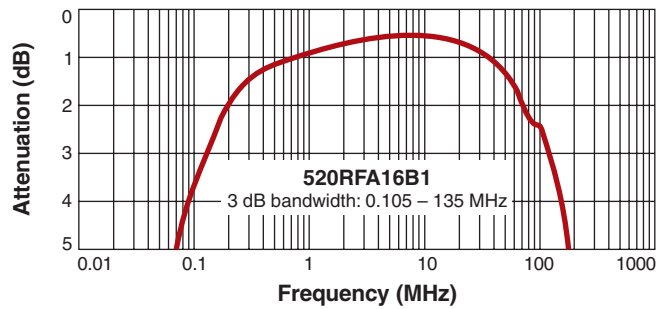
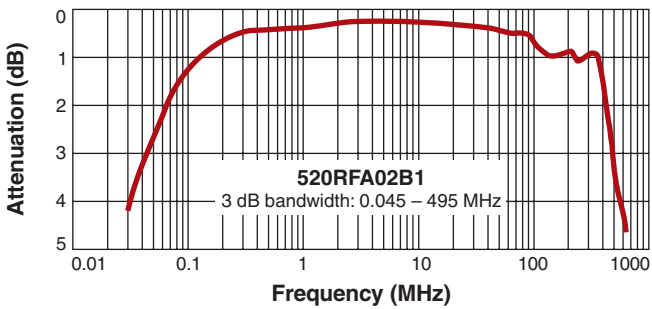
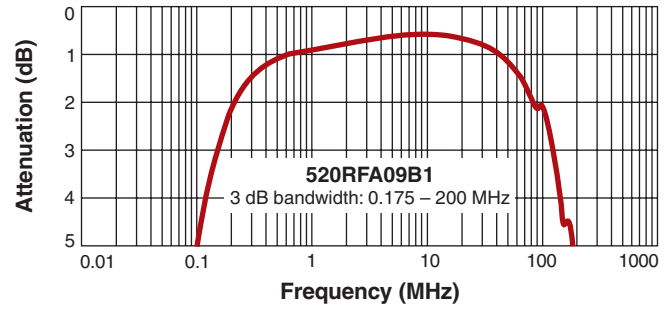
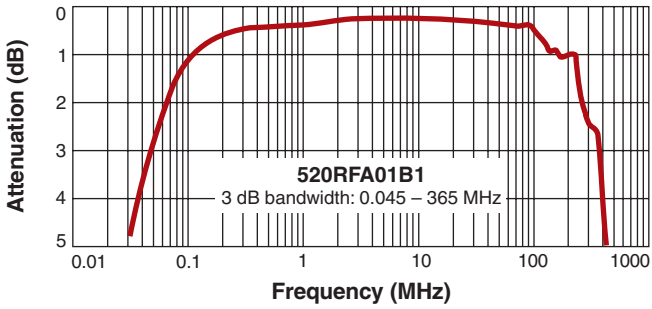
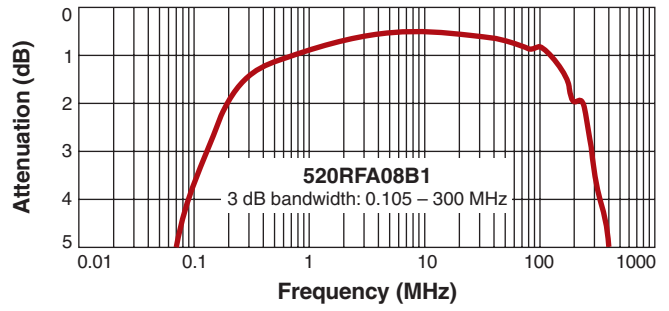
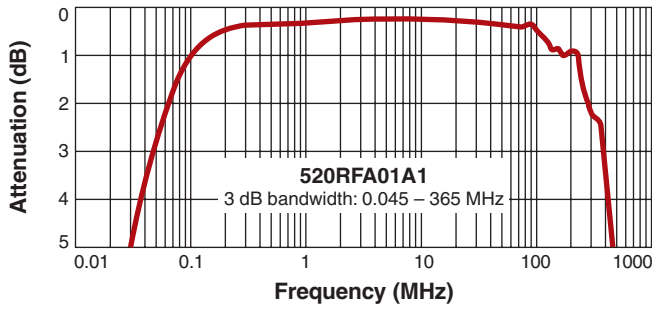
2. Impedance ratio is for the full primary winding to the full secondary winding.
3. Inductance measured at 100 kHz, 0.1 V, 0 Adc on an Voltech AT3600 or equivalent.
4. DCR measured on a Voltech AT3600 or equivalent.
5. Electrical specifications at 25°C.

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

Schematics



AE520RFA Series



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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.