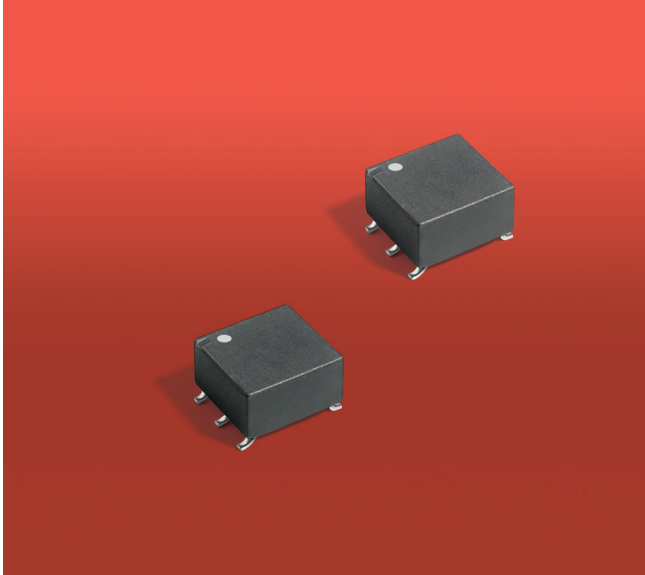


Outgassing Compliant Wideband Transformers



- 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

Testing: Z = Unscreened

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

T = Screening per MIL-STD-981

U = Screening per EEE-INST-002

F = Screening per ESCC 3201

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.

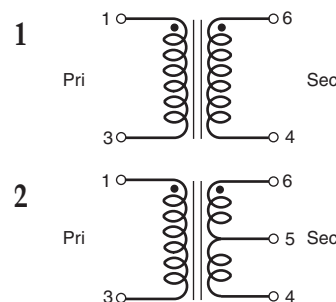
3. Inductance measured at 100 kHz, 0.1 V, 0 Adc on an Voltech AT3600 or equivalent.

4. DCR measured on a Voltech AT3600 or equivalent.

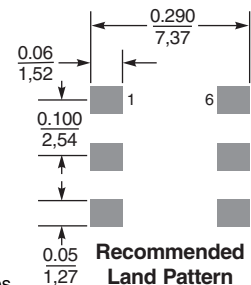
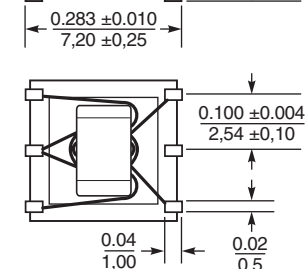
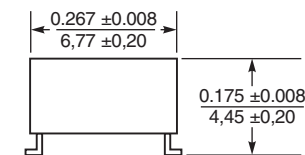
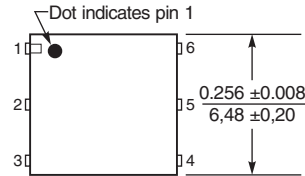
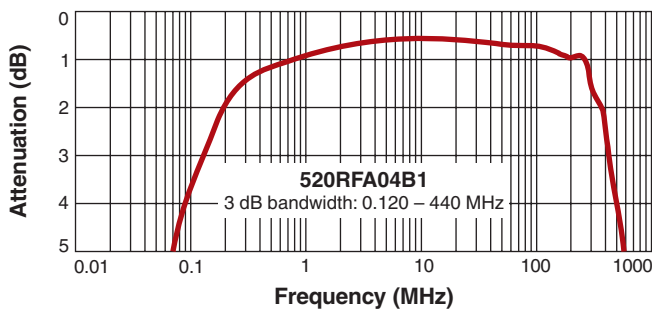
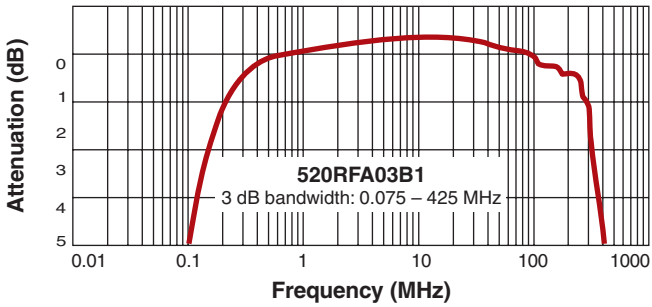
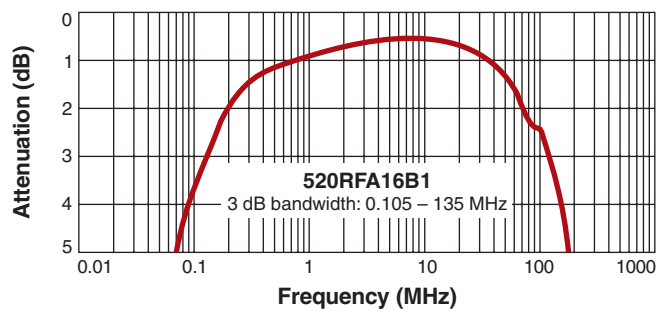
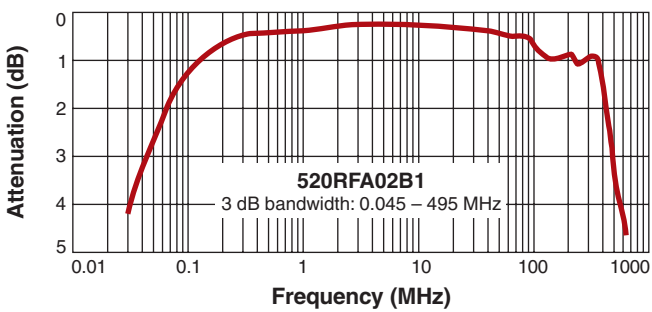
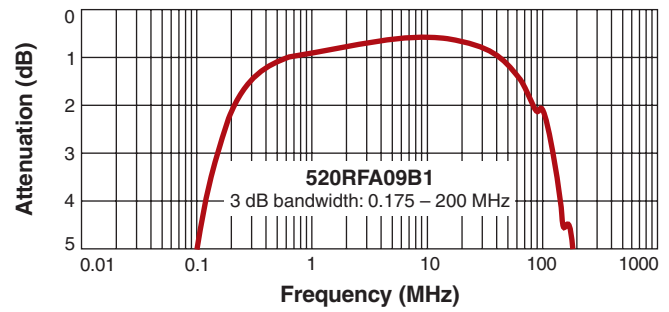
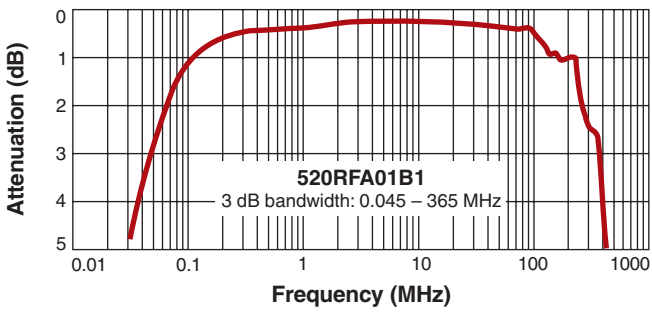
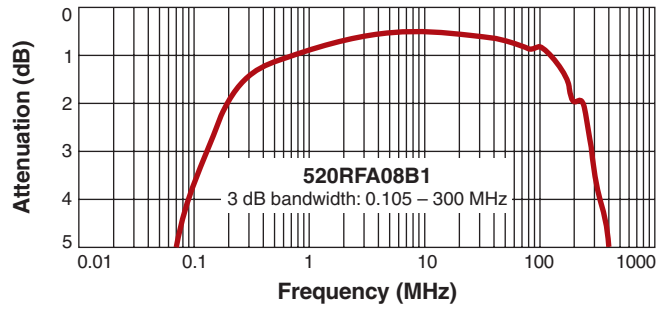
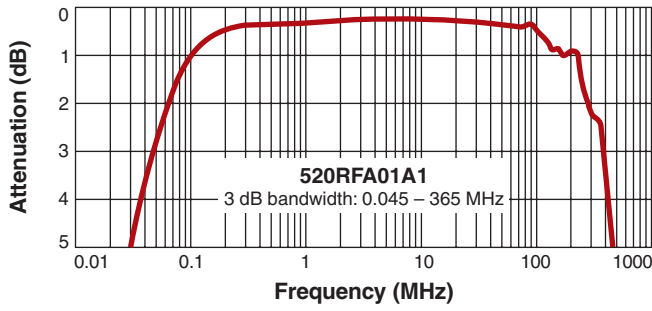
5. Electrical specifications at 25°C.

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

Schematics



AE520RFA Series



Dimensions are in inches/mm

Document AE099-2 Revised 02/20/18



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