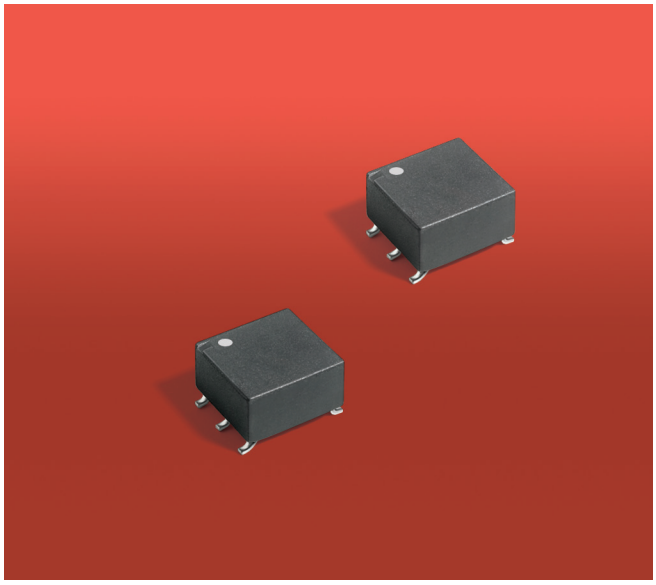
Outgassing Compliant Wideband Transformers



- 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.

Ambient temperature –55°C to +125°C

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)

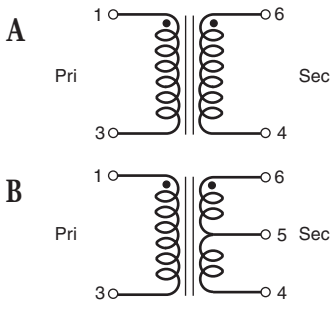
Enhanced crush-resistant packaging 750/7″reel
Plastic tape: 12 mm wide, 0.3 mm thick, 8 mm pocket spacing, 2.9 mm pocket depth

Part number	Schematic	Impedance ratio[1] pri:sec	Bandwidth (MHz)	Insertion loss max (dB)	Pins 1-3 (primary) L min[2] (µH)	Pins 1-3 (primary) DCR max[3] (mOhm)	Pins 6-4 (secondary) L min[2] (µH)	Pins 6-4 (secondary) DCR max[3] (mOhm)
AE520RFA01A1SZ	A	1 : 1	0.045 – 365	0.25	60	130	60	130
AE520RFA01B1SZ	B	1 : 1	0.045 – 365	0.25	60	130	60	130
AE520RFA02B1SZ	B	1 : 2	0.045 – 495	0.25	60	130	140	180
AE520RFA03B1SZ	B	1 : 3	0.075 – 425	0.35	40	120	140	180
AE520RFA04B1SZ	B	1 : 4	0.120 – 440	0.60	25	90	100	160
AE520RFA08B1SZ	B	1 : 8	0.105 – 300	0.60	25	90	200	180
AE520RFA09B1SZ	B	1 : 9	0.075 – 200	0.30	40	120	500	250
AE520RFA16B1SZ	B	1 : 16	0.105 – 135	0.60	25	90	500	250

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

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Schematics



Coilcraft CPS
CRITICAL PRODUCTS & SERVICES

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Cary, IL 60013
Phone 800-981-0363

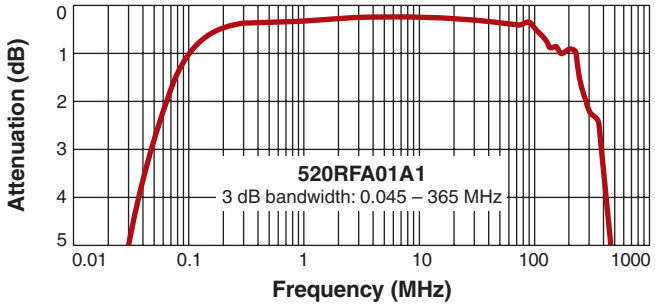
Fax 847-639-1508
Email cps@coilcraft.com
www.coilcraft-cps.com

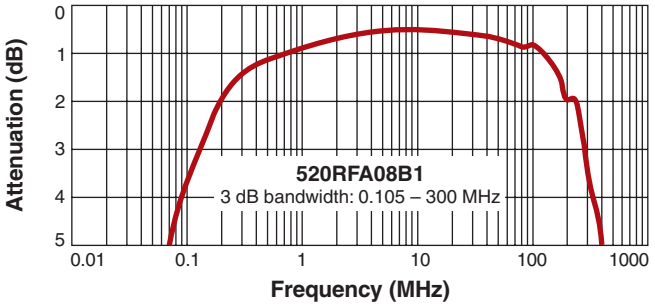
Document AE099-1 Revised 09/04/12

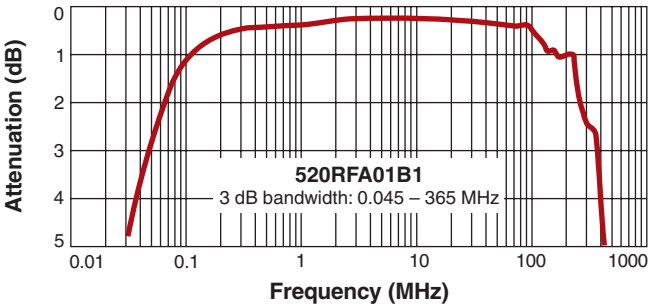
This product may not be used in medical or high risk applications without prior Coilcraft approval.
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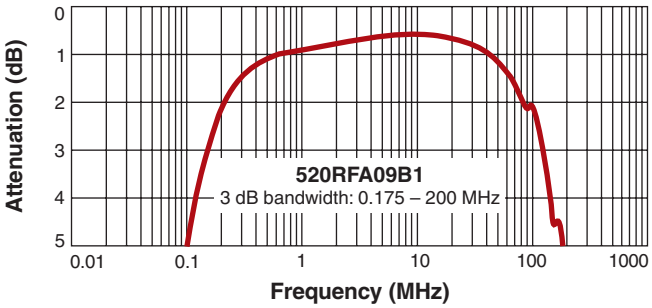
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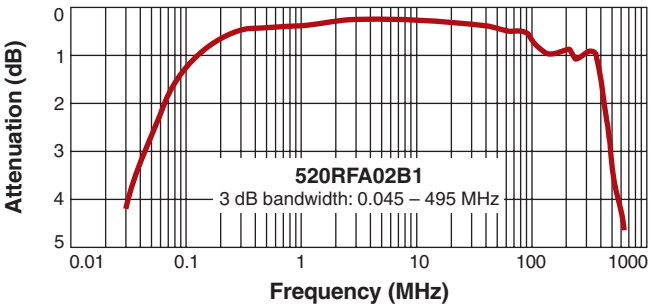
AE520RFA Series

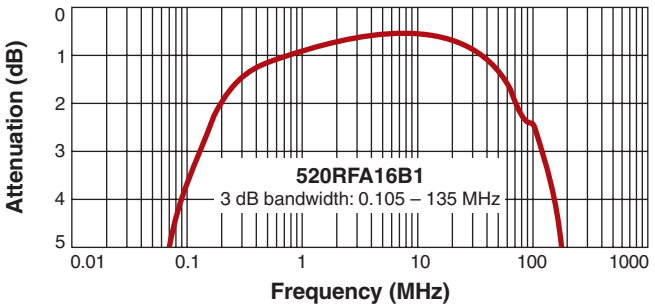


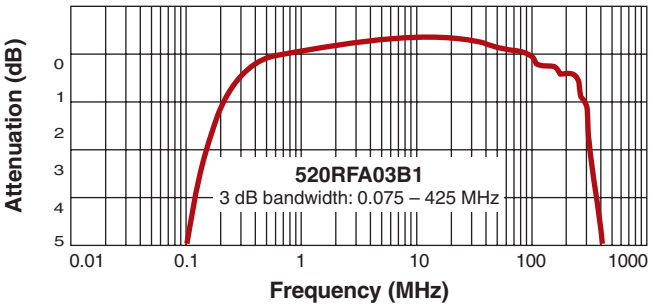


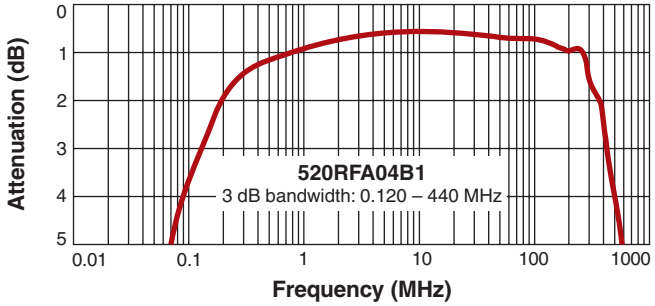


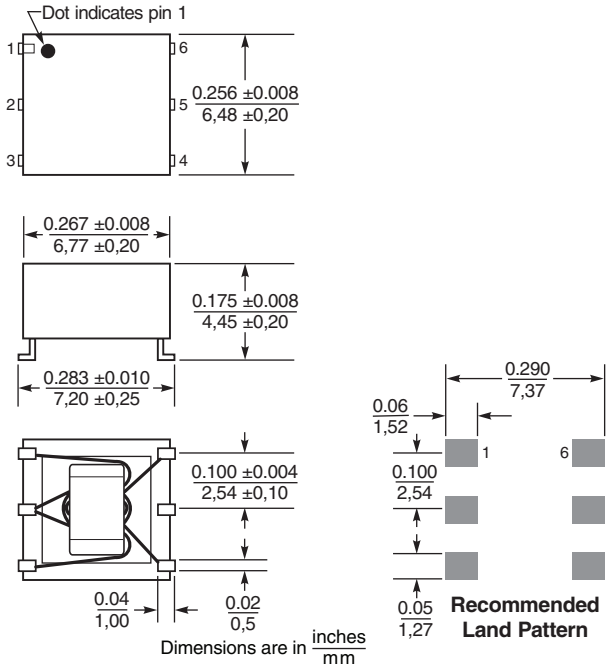












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