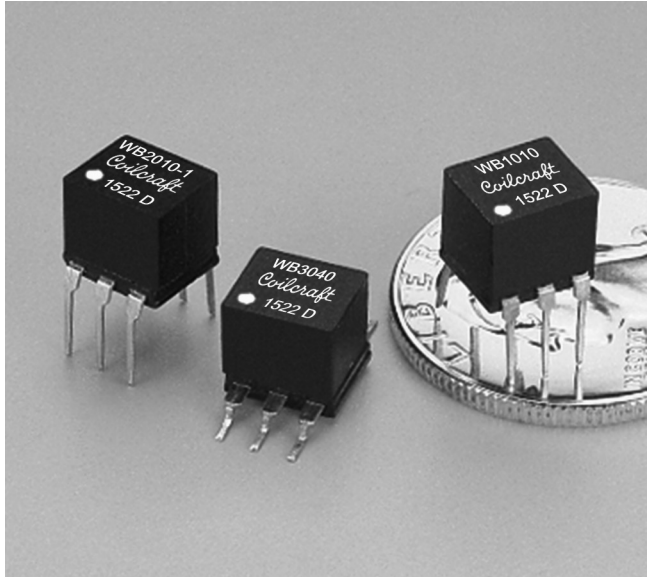




# Wideband RF Transformers



- Surface mount and through hole versions
- 500 V interwinding isolation, 1/4 Watt RF input power
- 250 mA max current rating.
- For a smaller package size, see our PWB Series

**Core material** Ferrite

**Terminations** RoHS compliant matte tin over nickel over phosphorus bronze. Other terminations available at additional cost.

**Weight** 0.37 – 0.39 g

**Ambient temperature** –40°C to +85°C

**Storage temperature** Component: –40°C to +85°C.

Tape and reel packaging: –40°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)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

60 per billion hours / 16,666,667 hours, calculated per Telcordia SR-332

**Packaging** (SM version): 500 per 13" reel;

Plastic tape: 24 mm wide, 0.42 mm thick, 20 mm pocket spacing, 6.6 mm pocket depth; (TH version): 70 per tube

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCBt\\_Washing.pdf](#).

Schematic	Part number		Impedance ratio <sup>2</sup> pri : sec	I <sub>DC</sub> max (mA)	Frequency (MHz)	Pri (pins 1-3)		Sec (pins 6-4)	
	Through-hole	Surface mount <sup>1</sup>				L min <sup>3</sup> (μH)	DCR max (Ohms)	L min <sup>3</sup> (μH)	DCR max (Ohms)
	WB1010-PCL	WB1010-SML_	1 : 1	250	0.005–100	780	0.320	780	0.320
	WB1010-1-PCL	WB1010-1-SML_	1 : 1	250	0.04–175	95	0.200	95	0.200
	WB1015-PCL	WB1015-SML_	1.5 : 1	250	0.1–150	80	0.145	51	0.130
	WB1040-PCL	WB1040-SML_	4 : 1	250	0.2–300	95	0.160	25	0.115
	WB2010-PCL	WB2010-SML_	1 : 1	250	0.005–100	780	0.320	780	0.320
	WB2010-1-PCL	WB2010-1-SML_	1 : 1	250	0.04–175	95	0.200	95	0.200
	WB2040-PCL	WB2040-SML_	4 : 1	250	0.2–300	95	0.160	25	0.115
	WB3010-PCL	WB3010-SML_	1 : 1	250	0.005–100	780	0.320	780	0.320
	WB3010-1-PCL	WB3010-1-SML_	1 : 1	250	0.04–175	95	0.200	95	0.200
	WB3015-PCL	WB3015-SML_	1.5 : 1	250	0.1–150	80	0.145	51	0.130
	WB3040-PCL	WB3040-SML_	4 : 1	250	0.2–300	95	0.160	25	0.115

1. When ordering, please specify a **packaging** code:

**WB3040-SMLD**

**Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape (500 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

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

3. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.

4. Electrical specifications at 25°C. Measurements are referenced to 50 Ohms.

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



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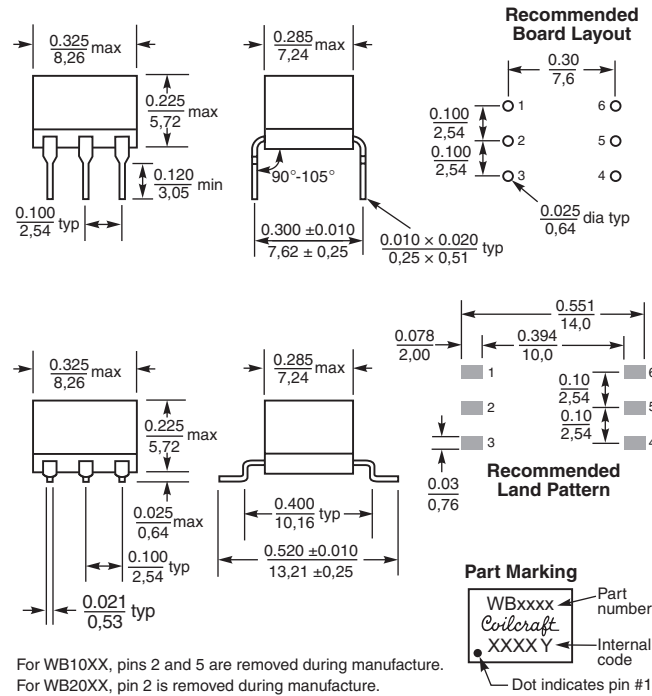
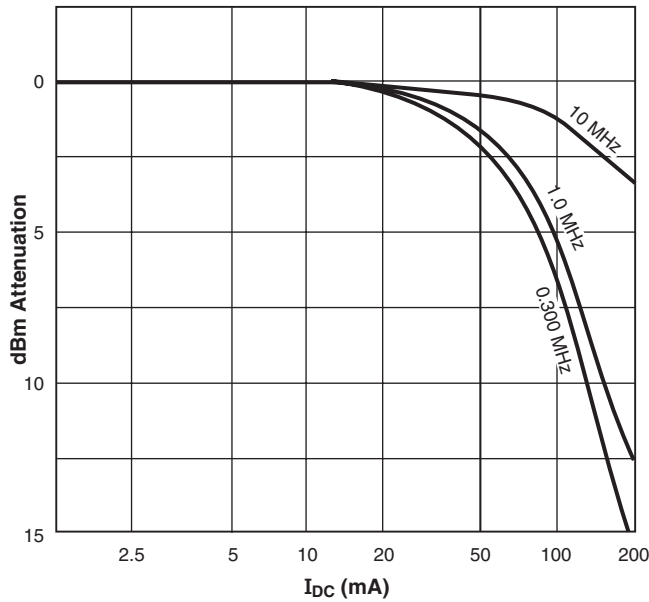
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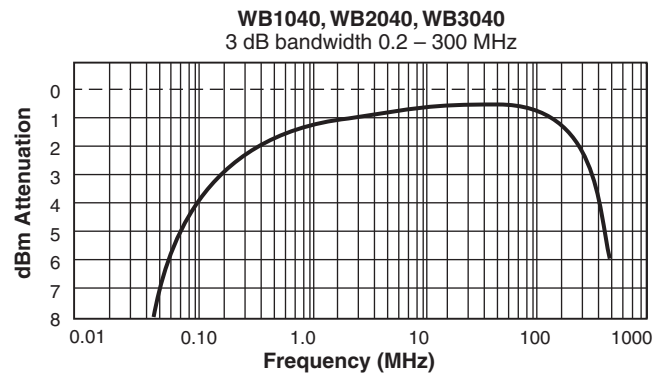
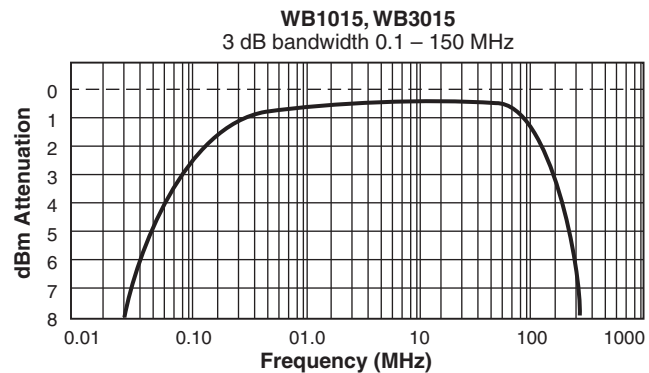
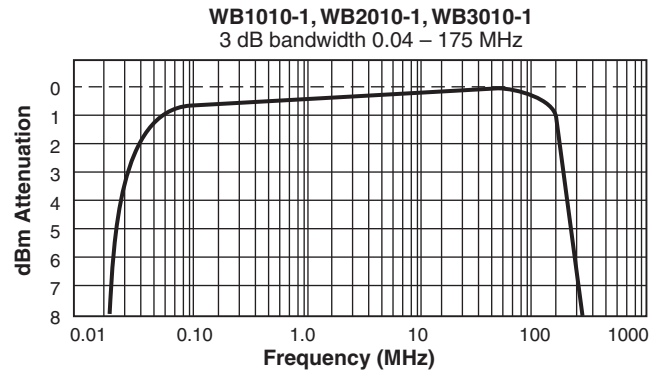
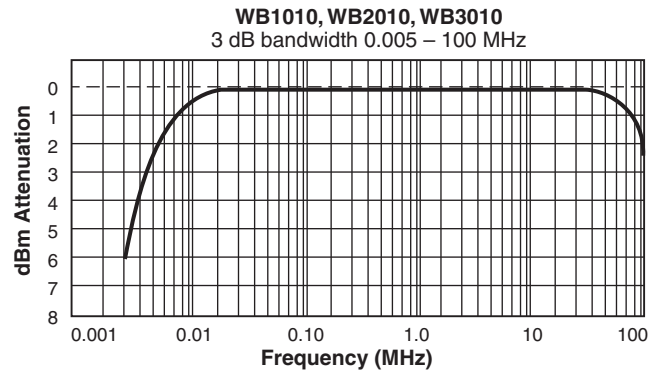
# Wideband RF Transformers

## Typical Attenuation vs Current



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$

## Typical Frequency Response



Attenuation measured on a network analyzer (re: 50 Ohms)



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