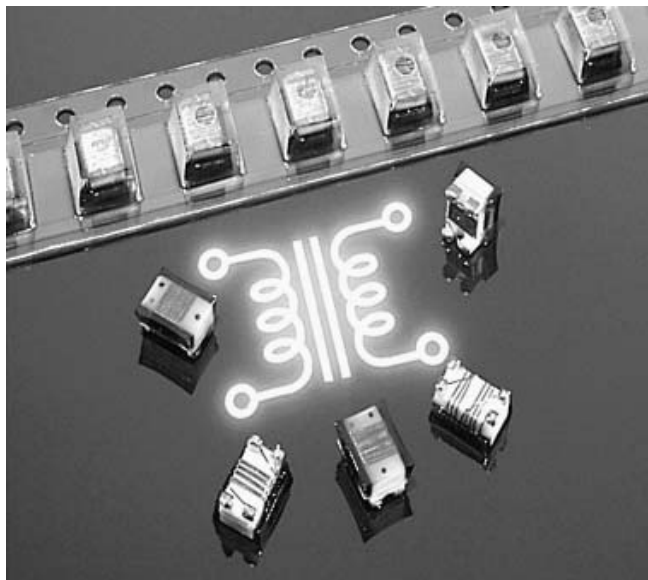


Surface Mount Wide Band RF Transformers



Available in a variety of impedance versions, Coilcraft's WBT Series chip transformers provide wide band pass performance in a small surface mount package.

The transformers are built on an 1812 size ferrite body with a ceramic base. They feature 50 V isolation and a 1/4 Watt RF power rating. The top is a high temperature material that creates a flat surface for auto insertion. The parts are packaged in tape and reel for easy dispensing.

Applications include impedance matching, voltage or current transformation, DC isolation, balanced/unbalanced mixing, matching, power splitting, coupling and signal inversion.

1:1 Transformers

Part number	L per winding (μH)	Test frequency (MHz)	Imp. ratio pri:sec	DCR max (Ohms)	I _{DC} (mA)	Isolation (Vrms)	Insertion loss (dB)	Bandwidth (MHz)	Color dot
1812WBT-1	14	10	1:1	4.8	200	50	<1	0.340-22	Yellow
1812WBT-2	5.3	10	1:1	1.8	400	50	<1	0.800-60	Green
1812WBT-3	1.25	50	1:1	0.7	500	50	<1	4-200	White
1812WBT-4	0.220	50	1:1	0.3	700	50	<1	11-480	Orange
1812WBT-5	0.090	50	1:1	0.15	700	50	<1.5	48-645	Red

1.5:1 Transformers

Part number	L per winding (μH)		Test frequency (MHz)	Imp. ratio pri:sec	DCR max (Ohms)		I _{DC} (mA)	Isolation (Vrms)	Insertion loss (dB)	Bandwidth (MHz)	Color dot
	pri	sec			pri	sec					
1812WBT1.5-1	5.0	3.3	10	1.5:1	1.05	0.87	400	50	0.5	1.3-100	Red
1812WBT1.5-2	2.5	1.6	10	1.5:1	0.74	0.58	500	50	0.5	2.75-135	Orange
1812WBT1.5-3	1.0	0.6	10	1.5:1	0.43	0.34	500	50	0.75	7.2-200	Yellow
1812WBT1.5-4	0.144	0.090	10	1.5:1	0.18	0.14	700	50	2.25	38-535	Green

2:1 Transformers

Part number	L per winding (μH)		Test frequency (MHz)	Imp. ratio pri:sec	DCR max (Ohms)		I _{DC} (mA)	Isolation (Vrms)	Insertion loss (dB)	Bandwidth (MHz)	Color dot
	pri	sec			pri	sec					
1812WBT2-1	13.80	6.90	10	2:1	4.6	3.2	200	50	<1.5	0.800-23	Brown
1812WBT2-2	5.850	2.925	10	2:1	1.25	0.95	400	50	<1.5	2.2-65	Red
1812WBT2-3	2.60	1.30	10	2:1	0.52	0.42	600	50	<1.5	4-105	Orange
1812WBT2-4	0.910	0.455	50	2:1	0.27	0.23	700	50	<1.5	11-200	Yellow

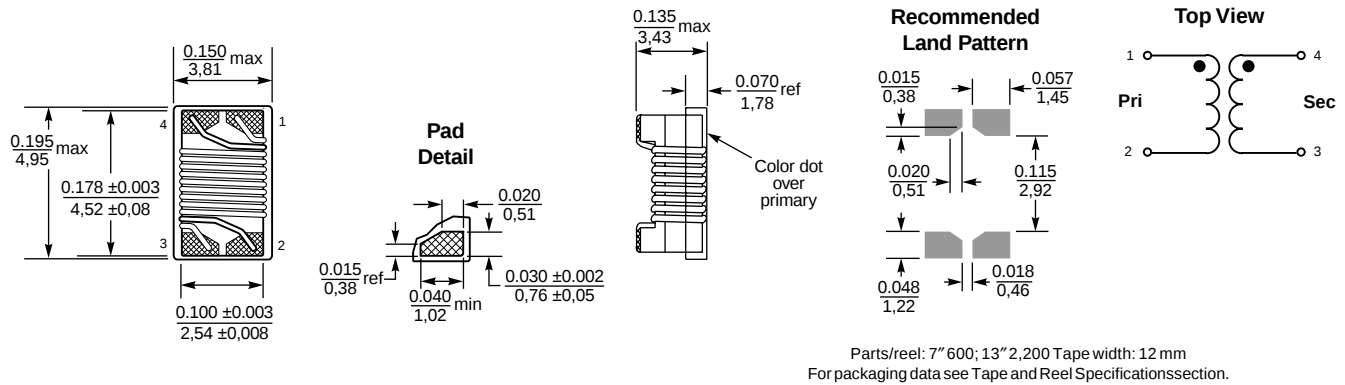
Operating temperature range -40°C to +85°C.
Electrical specifications at 25°C.

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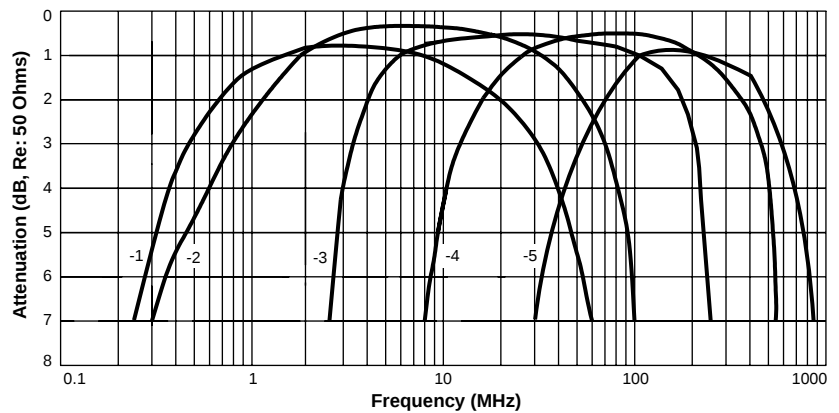
Specifications subject to change without notice. Document 117-1 Revised 11/20/02

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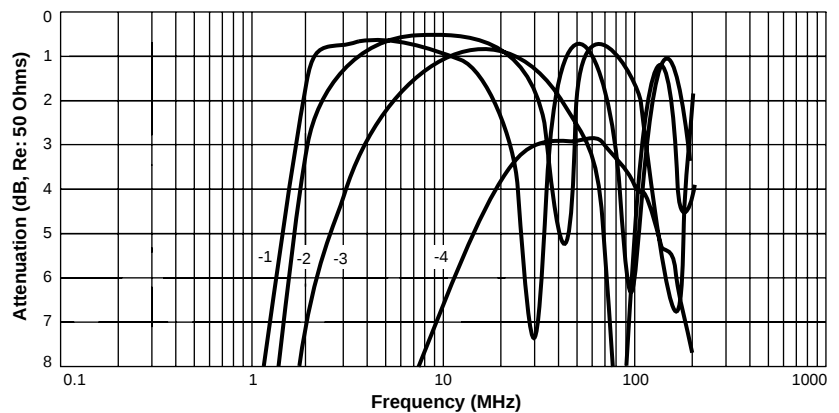
E-mail info@coilcraft.com Web <http://www.coilcraft.com>



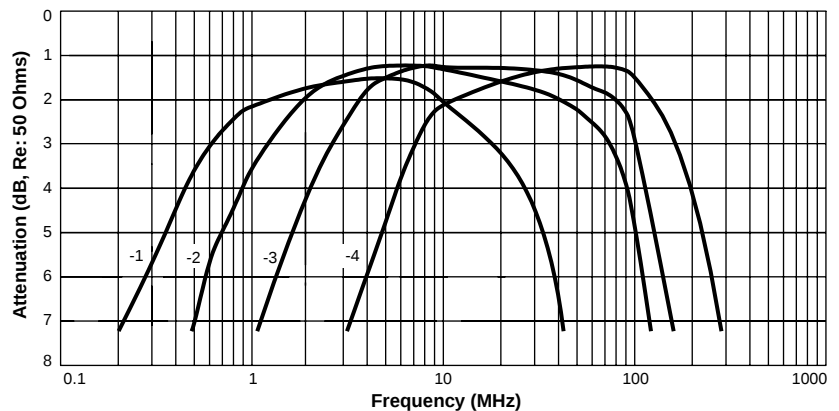
Typical Frequency Attenuation 1:1 Transformers



Typical Frequency Attenuation 1.5:1 Transformers



Typical Frequency Attenuation 2:1 Transformers



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