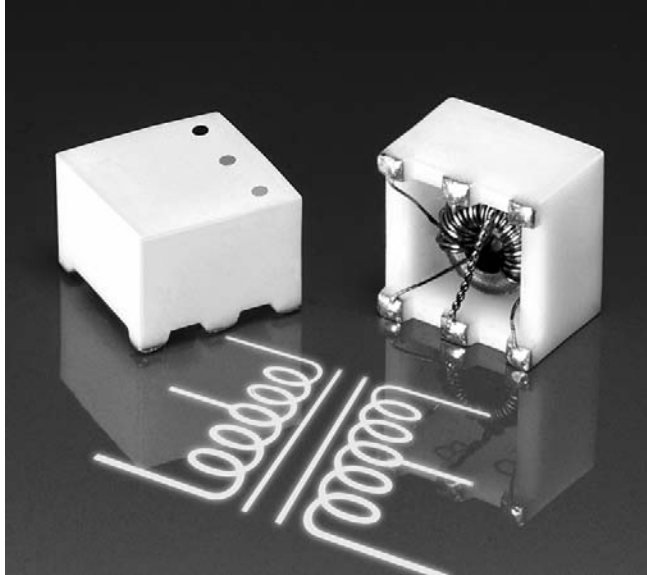


Surface Mount Wideband RF Transformers



These wideband RF transformers provide excellent performance at a very economical price. They come tapped or untapped and are packaged in a low profile, flat top ceramic case that makes them ideal for pick and place operations. They feature 400 V rms isolation and 1/4 Watt RF input power rating. Operating temperature range is -40° to +85°C.

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

In addition to the standard parts shown, transformers with other combinations of impedance ratio, insertion loss, frequency response and current handling are available.

Coilcraft **Designer's Kit C129** contains samples of each part. Order by phone or at <http://order.coilcraft.com>.

Type	Part number	Impedance ratio Pri:Sec	Bandwidth (MHz)	Idc (mA)	Insertion loss max (dB)	Pins 1-3		Pins 6-4		Color code	
						L min (μ H)	DCR max (Ohms)	L min (μ H)	DCR max (Ohms)		
Type A	TTWB-1-A	1:1	0.08 - 450	250	0.60	40	0.070	40	0.070	Black Black Green	
	TTWB-1.5-A	1:1.5	0.03 - 300	250	0.35	110	0.080	160	0.110	Black Brown Green	
	TTWB-2-A	1:2	0.05 - 200	250	0.25	75	0.088	150	0.120	Black Red Green	
	TTWB-4-A	1:4	0.15 - 500	250	0.50	25	0.075	98	0.135	Black Yellow Green	
	TTWB-16-A	1:16	0.05 - 80	250	0.35	75	0.260	1250	0.910	Black Orange Green	
	TTWB1010	1:1	0.0035 - 125	250	0.20	780	0.320	780	0.320	Black Black Black	
	TTWB1010-1	1:1	0.03 - 250	250	0.20	95	0.200	95	0.200	Black Black Violet	
	TTWB1015	1:1.5	0.07 - 225	250	0.40	51	0.130	80	0.145	Black Black Brown	
	TTWB1040	1:4	0.15 - 400	250	0.40	25	0.115	95	0.160	Black Black Yellow	
	Type B	TTWB-1-B	1:1	0.13 - 425	250	0.40	22	0.070	22	0.070	Brown Black Green
TTWB-1.5-B		1:1.5	0.50 - 250	250	0.40	140	0.100	200	0.120	Brown Brown Green	
TTWB-2-B		1:2	0.20 - 400	250	0.35	75	0.088	150	0.130	Brown Red Green	
TTWB-4-B		1:4	0.14 - 700	250	0.50	25	0.075	98	0.135	Brown Yellow Green	
TTWB-16-B		1:16	0.075 - 90	250	0.30	75	0.260	1250	0.910	Brown Orange Green	
TTWB2010		1:1	0.0035 - 125	250	0.20	780	0.320	780	0.320	Brown Black Black	
TTWB2010-1		1:1	0.03 - 250	250	0.20	95	0.200	95	0.200	Brown Black Violet	
TTWB2040		1:4	0.15 - 400	250	0.40	25	0.115	95	0.160	Brown Black Yellow	
Type C		TTWB-1-C	1:1	0.10 - 300	250	0.60	22	0.070	22	0.070	Red Black Green
		TTWB-1.5-C	1:1.5	0.15 - 200	250	0.30	140	0.110	200	0.120	Red Brown Green
	TTWB-2-C	1:2	0.13 - 285	250	0.30	75	0.105	150	0.130	Red Red Green	
	TTWB-4-C	1:4	0.14 - 500	250	0.50	25	0.075	98	0.135	Red Yellow Green	
	TTWB3010	1:1	0.0035 - 125	250	0.20	780	0.320	780	0.320	Red Black Black	
	TTWB3010-1	1:1	0.03 - 250	250	0.20	95	0.200	95	0.200	Red Black Violet	
	TTWB3015	1:1.5	0.07 - 225	250	0.40	51	0.130	80	0.145	Red Black Brown	
	TTWB3040	1:4	0.15 - 400	250	0.40	25	0.115	95	0.160	Red Black Yellow	

1. Operating temperature range -40°C to +85°C.

2. Electrical specifications at 25°C.

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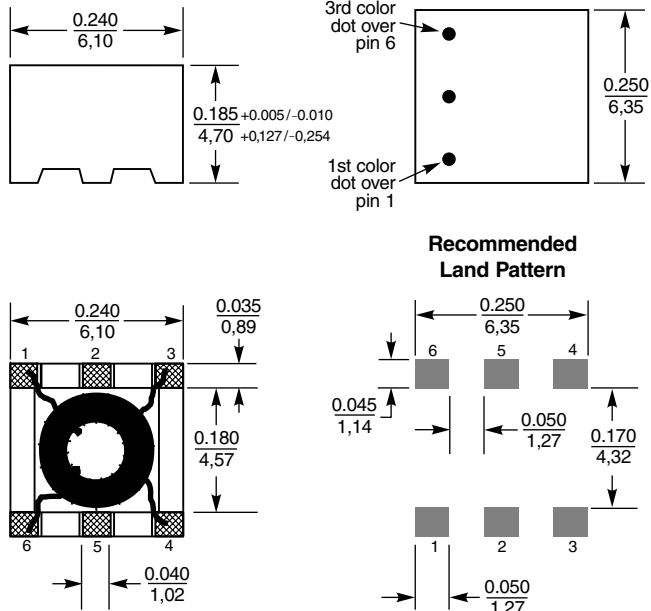
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Surface Mount Wideband RF Transformers

Dimensions



Weight: 0.37 – 0.43 g
Tape and reel: 1000/13" reel 16 mm tape width
 For packaging data see Tape and Reel Specifications section.

Typical Frequency Response

Part number	3 dB (MHz)	2 dB (MHz)	1 dB (MHz)
TTWB-1-A	0.08 - 450	0.13 - 325	0.30 - 190
TTWB-1.5-A	0.03 - 300	0.035 - 250	0.06 - 150
TTWB-2-A	0.05 - 200	0.06 - 160	0.10 - 100
TTWB-4-A	0.15 - 500	0.24 - 300	0.60 - 140
TTWB-16-A	0.05 - 80	0.06 - 75	0.11 - 30
TTWB1010	0.0035 - 125	0.0045 - 100	0.007 - 80
TTWB1010-1	0.03 - 250	0.04 - 225	0.06 - 200
TTWB1015	0.07 - 225	0.10 - 200	0.20 - 125
TTWB1040	0.15 - 400	0.25 - 350	0.80 - 250
TTWB-1-B	0.13 - 425	0.18 - 325	0.32 - 190
TTWB-1.5-B	0.50 - 250	0.80 - 175	1.50 - 120
TTWB-2-B	0.20 - 400	0.225 - 275	0.50 - 150
TTWB-4-B	0.14 - 700	0.20 - 400	0.40 - 150
TTWB-16-B	0.075 - 90	0.11 - 75	0.20 - 65
TTWB2010	0.0035 - 125	0.0045 - 100	0.007 - 80
TTWB2010-1	0.03 - 250	0.04 - 225	0.06 - 200
TTWB2040	0.15 - 400	0.25 - 350	0.80 - 250
TTWB-1-C	0.10 - 300	0.13 - 200	0.20 - 150
TTWB-1.5-C	0.15 - 200	0.225 - 150	0.35 - 100
TTWB-2-C	0.13 - 285	0.20 - 175	0.325 - 125
TTWB-4-C	0.14 - 500	0.20 - 230	0.40 - 110
TTWB3010	0.0035 - 125	0.0045 - 100	0.007 - 80
TTWB3010-1	0.03 - 250	0.04 - 225	0.06 - 200
TTWB3015	0.07 - 225	0.10 - 200	0.20 - 125
TTWB3040	0.15 - 400	0.25 - 350	0.80 - 250

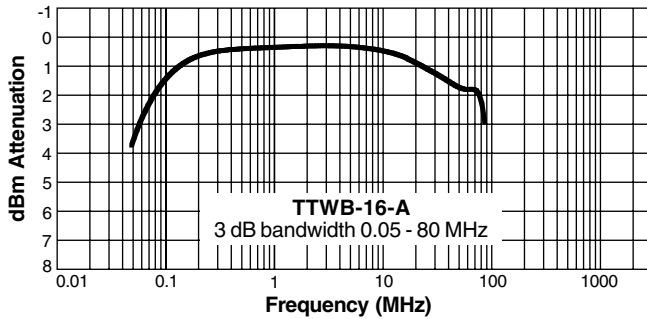
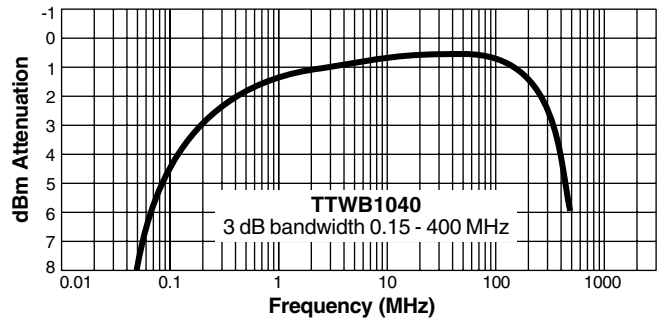
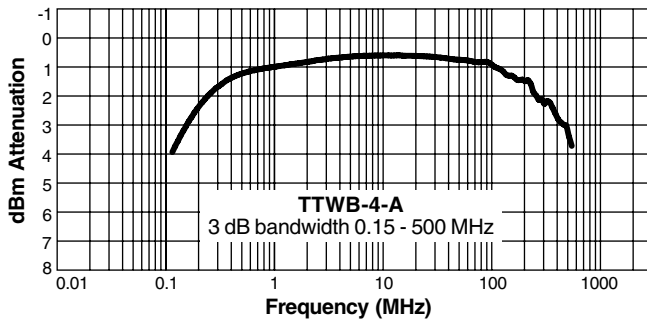
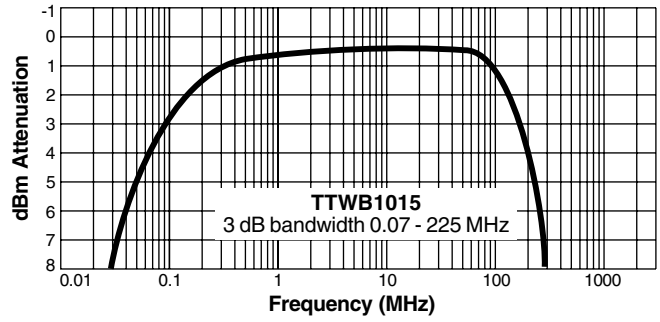
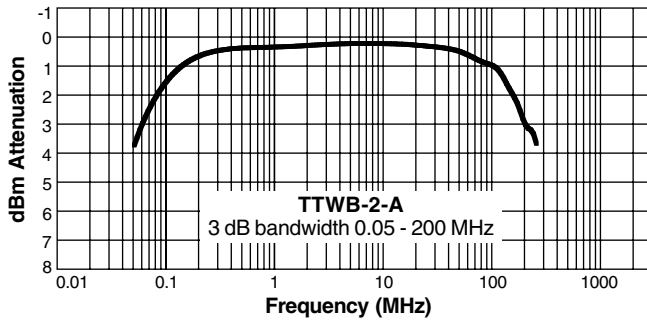
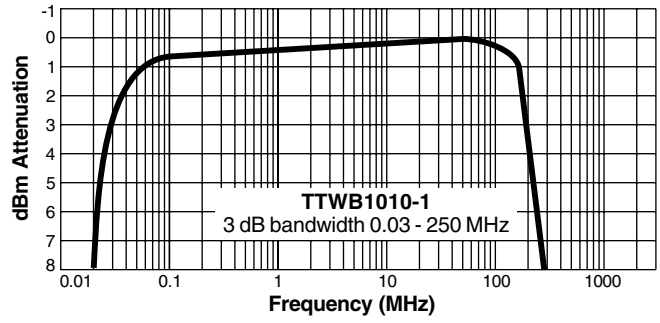
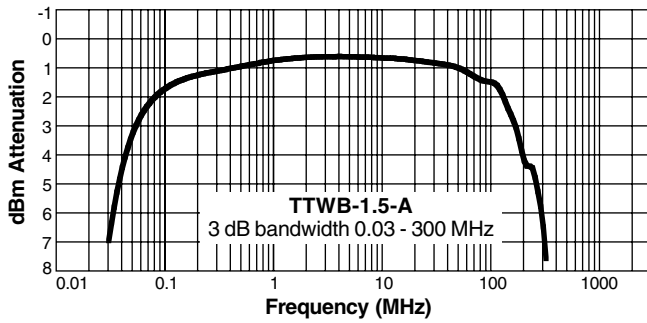
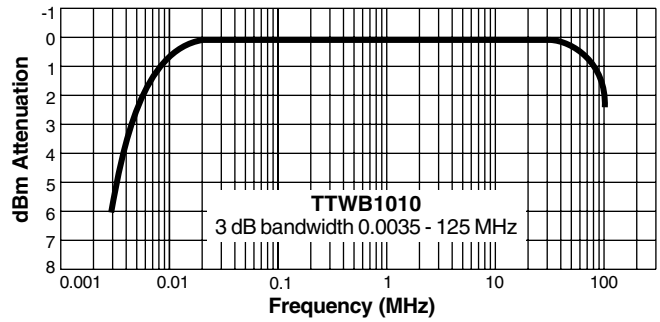
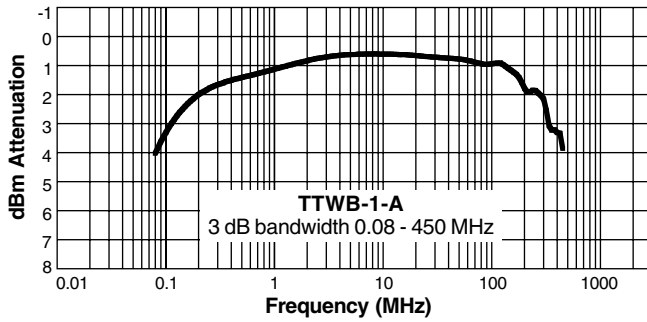
1. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
2. Electrical specifications at 25°C .

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Type A Transformers

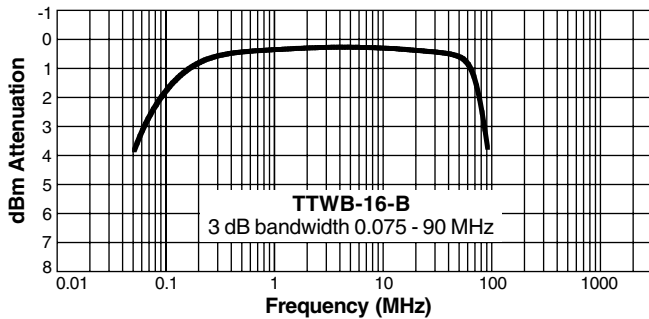
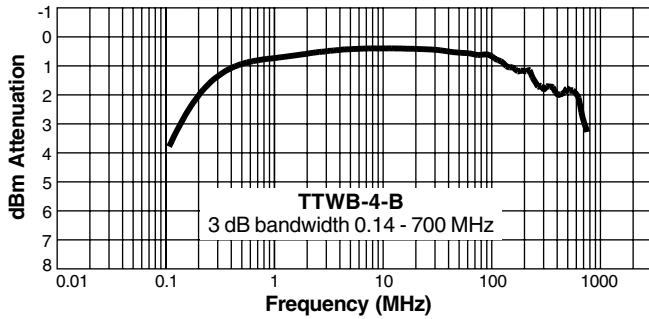
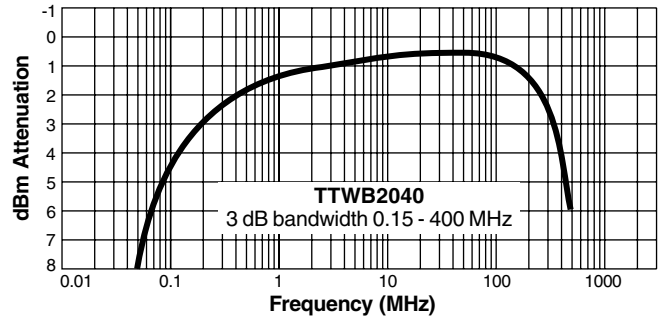
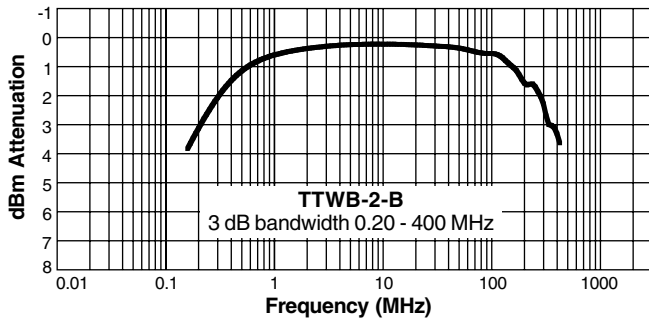
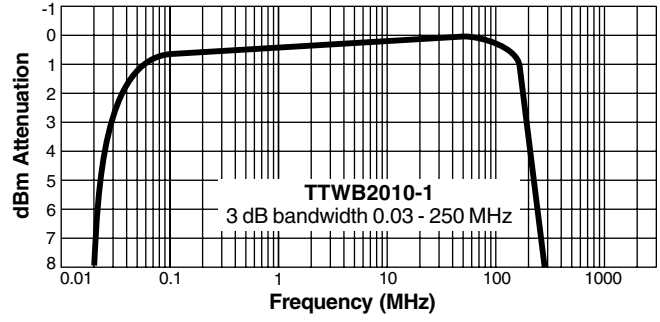
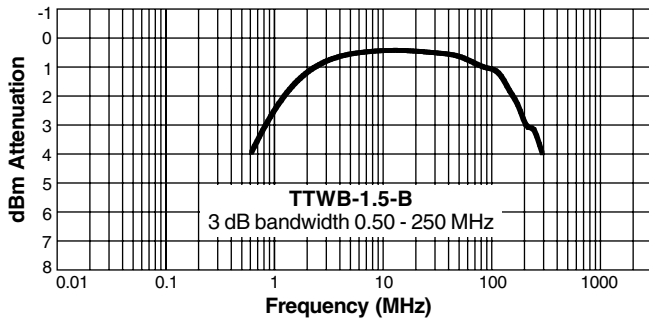
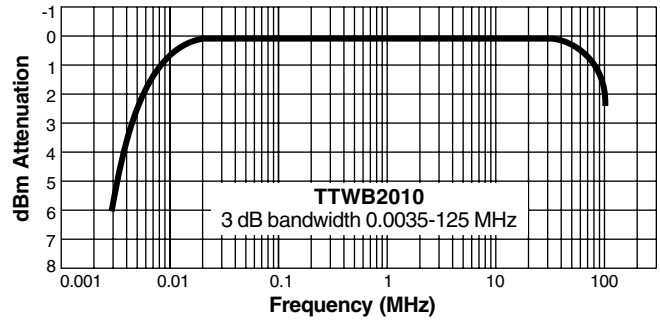
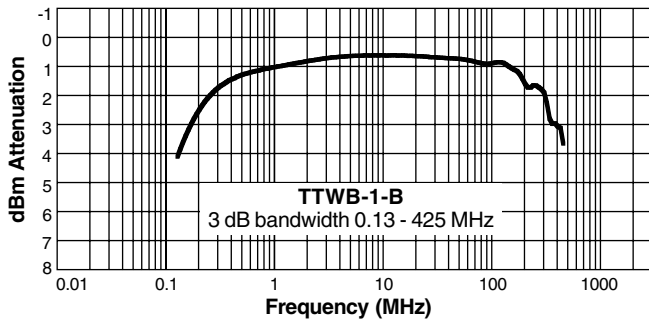


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Type B Transformers

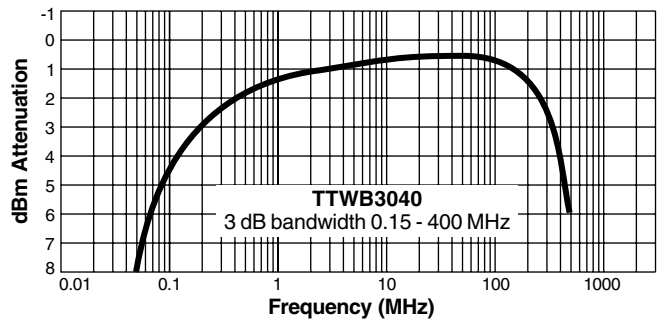
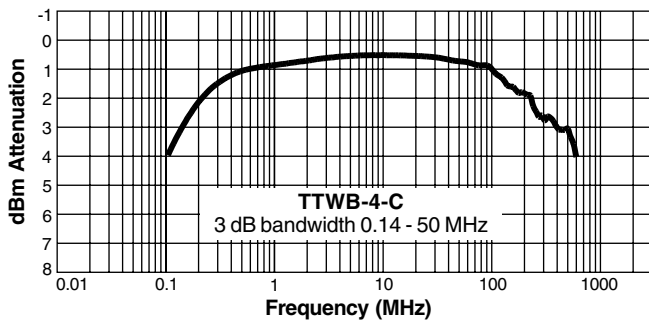
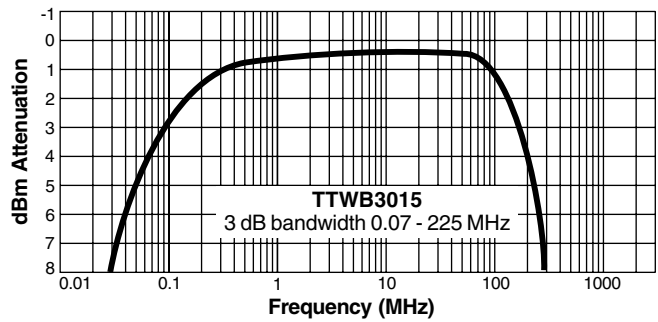
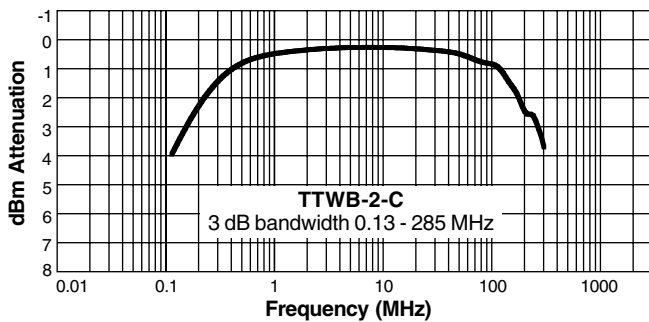
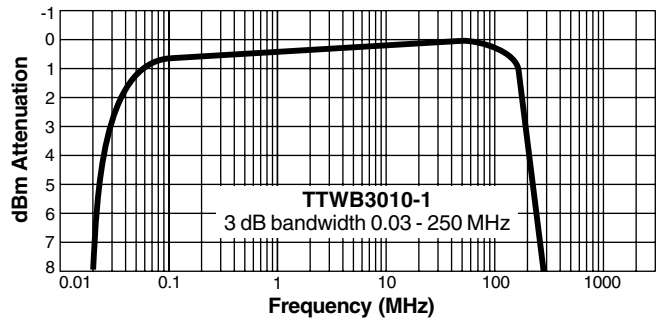
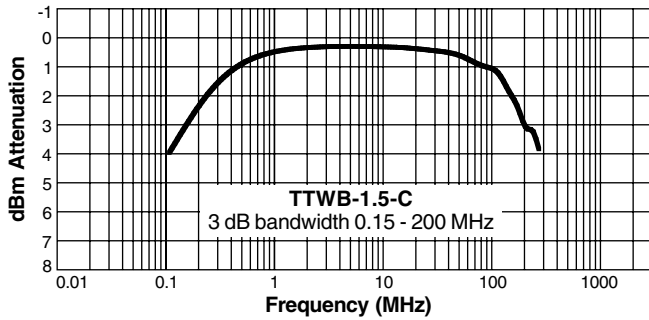
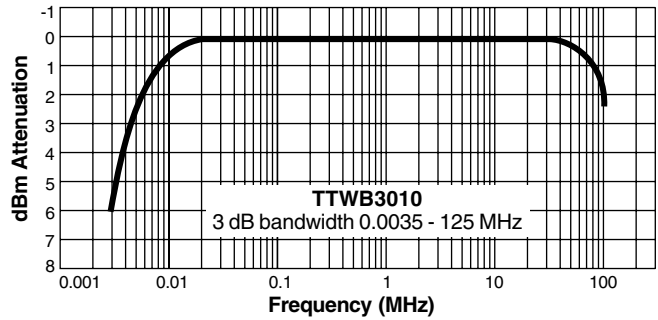
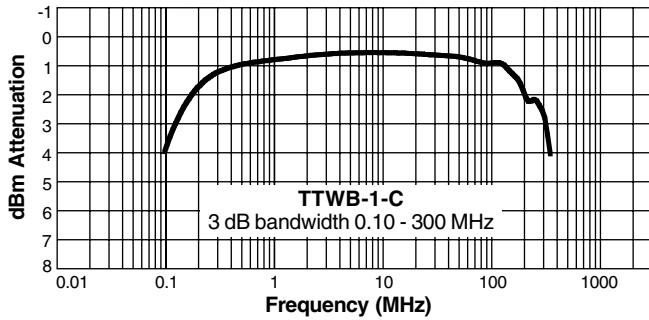


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Type C Transformers



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