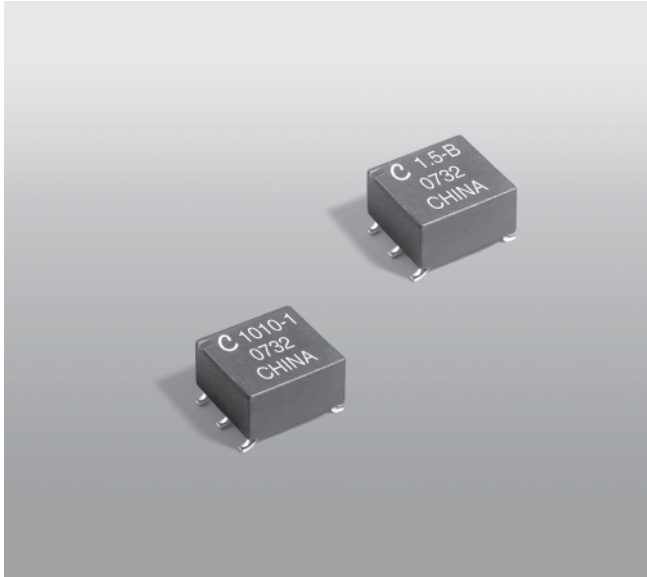


**NEW!**

Surface Mount Wideband RF Transformers



- Cost effective surface mount wideband transformers
- 400 V interwinding isolation, 1/4 Watt RF input power
- 250 mA max current rating.

Core material Ferrite

Terminations RoHS compliant in-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 250 – 270 mg

Ambient temperature –40°C to +85°C

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

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)

Mean Time Between Failures (MTBF) 16,666,667 hours

Packaging 250 per 7" reel; 1000 per 13" reel;

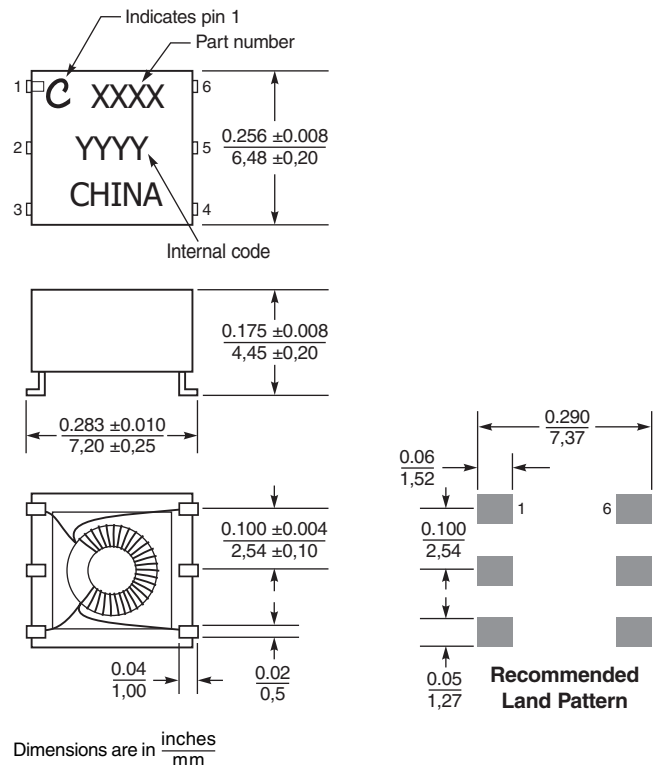
Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 5.0 mm pocket depth

PCB washing Only pure water or alcohol recommended

Typical Frequency Response

Part number	3 dB (MHz)	2 dB (MHz)	1 dB (MHz)
PWB-1-AL_	0.08 – 450	0.13 – 325	0.30 – 190
PWB-1.5-AL_	0.03 – 300	0.035 – 250	0.06 – 150
PWB-2-AL_	0.05 – 200	0.06 – 160	0.10 – 100
PWB-4-AL_	0.15 – 500	0.24 – 300	0.60 – 140
PWB-16-AL_	0.05 – 80	0.06 – 75	0.11 – 30
PWB1010L_	0.0035 – 125	0.0045 – 100	0.007 – 80
PWB1010-1L_	0.03 – 250	0.04 – 225	0.06 – 200
PWB1015L_	0.07 – 225	0.10 – 200	0.20 – 125
PWB1040L_	0.15 – 400	0.25 – 350	0.80 – 250
PWB-1-BL_	0.13 – 425	0.18 – 325	0.32 – 190
PWB-1.5-BL_	0.50 – 250	0.80 – 175	1.50 – 120
PWB-2-BL_	0.20 – 400	0.225 – 275	0.50 – 150
PWB-4-BL_	0.14 – 700	0.20 – 400	0.40 – 150
PWB-16-BL_	0.075 – 90	0.11 – 75	0.20 – 65
PWB2010L_	0.0035 – 125	0.0045 – 100	0.007 – 80
PWB2010-1L_	0.03 – 250	0.04 – 225	0.06 – 200
PWB2040L_	0.15 – 400	0.25 – 350	0.80 – 250
PWB-1-CL_	0.10 – 300	0.13 – 200	0.20 – 150
PWB-1.5-CL_	0.15 – 200	0.225 – 150	0.35 – 100
PWB-2-CL_	0.13 – 285	0.20 – 175	0.325 – 125
PWB-4-CL_	0.14 – 500	0.20 – 230	0.40 – 110
PWB3010L_	0.0035 – 125	0.0045 – 100	0.007 – 80
PWB3010-1L_	0.03 – 250	0.04 – 225	0.06 – 200
PWB3015L_	0.07 – 225	0.10 – 200	0.20 – 125
PWB3040L_	0.15 – 400	0.25 – 350	0.80 – 250

Dimensions



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NEW!

Surface Mount Wideband RF Transformers

Type	Part number ¹	Impedance ratio ² pri:sec	Bandwidth (MHz)	Idc (mA)	Insertion loss max (dB)	L min ³ (μ H)	Pins 1-3 DCR max (Ohms)	L min ³ (μ H)	Pins 6-4 DCR max (Ohms)
 Type A	PWB-1-AL_	1:1	0.08 - 450	250	0.60	40	0.070	40	0.070
	PWB-1.5-AL_	1:1.5	0.03 - 300	250	0.35	110	0.080	160	0.110
	PWB-2-AL_	1:2	0.05 - 200	250	0.25	75	0.088	150	0.120
	PWB-4-AL_	1:4	0.15 - 500	250	0.50	25	0.075	98	0.135
	PWB-16-AL_	1:16	0.05 - 80	250	0.35	75	0.260	1250	0.910
	PWB1010L_	1:1	0.0035 - 125	250	0.20	780	0.320	780	0.320
	PWB1010-1L_	1:1	0.03 - 250	250	0.20	95	0.200	95	0.200
 Type B	PWB-1-BL_	1:1	0.13 - 425	250	0.40	22	0.070	22	0.070
	PWB-1.5-BL_	1:1.5	0.50 - 250	250	0.40	140	0.100	200	0.120
	PWB-2-BL_	1:2	0.20 - 400	250	0.35	75	0.088	150	0.130
	PWB-4-BL_	1:4	0.14 - 700	250	0.50	25	0.075	98	0.135
	PWB-16-BL_	1:16	0.075 - 90	250	0.30	75	0.260	1250	0.910
	PWB2010L_	1:1	0.0035 - 125	250	0.20	780	0.320	780	0.320
	PWB2010-1L_	1:1	0.03 - 250	250	0.20	95	0.200	95	0.200
 Type C	PWB-1-CL_	1:1	0.10 - 300	250	0.60	22	0.070	22	0.070
	PWB-1.5-CL_	1:1.5	0.15 - 200	250	0.30	140	0.110	200	0.120
	PWB-2-CL_	1:2	0.13 - 285	250	0.30	75	0.105	150	0.130
	PWB-4-CL_	1:4	0.14 - 500	250	0.50	25	0.075	98	0.135
	PWB3010L_	1:1	0.0035 - 125	250	0.20	780	0.320	780	0.320
	PWB3010-1L_	1:1	0.03 - 250	250	0.20	95	0.200	95	0.200
	PWB3015L_	1:1.5	0.07 - 225	250	0.40	51	0.130	80	0.145
PWB3040L_	1:4	0.15 - 400	250	0.40	25	0.115	95	0.160	

1. When ordering, please specify **termination** and **packaging** codes:

PWB-3010-1 L D

Termination: L = RoHS compliant tin-silver-copper over tin over nickel over phos bronze.
Special order: S = non-RoHS tin-lead (63/37).

Packaging: C = 7" machine ready reel. EIA-481 embossed plastic tape, 250 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 C instead.

D = 13" machine ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).

- Impedance ratio is for the full primary winding to the full secondary winding.
- Inductance tested at 130 kHz, 0.1 Vrms, 0 Adc.
- Electrical specifications at 25°C.

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Document 591-2 Revised 10/15/07

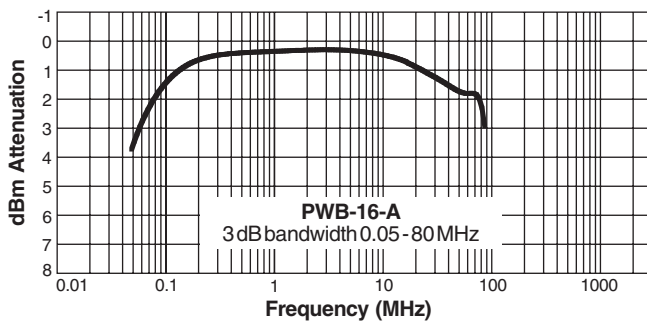
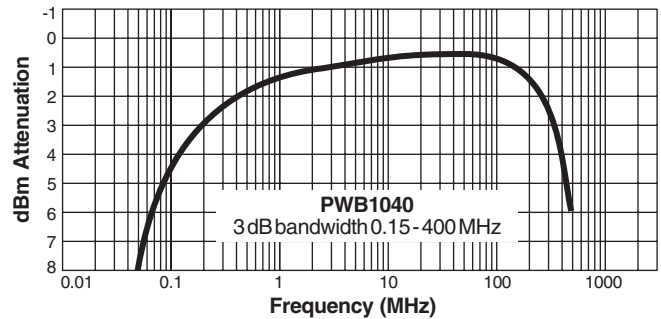
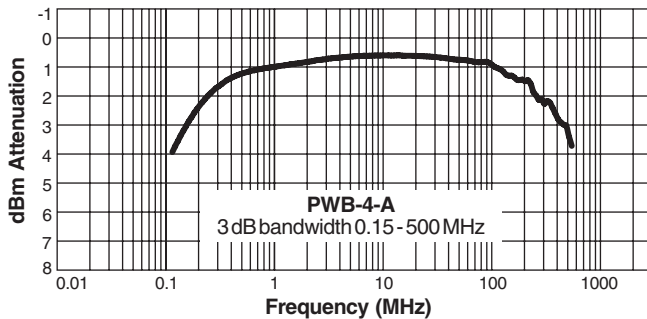
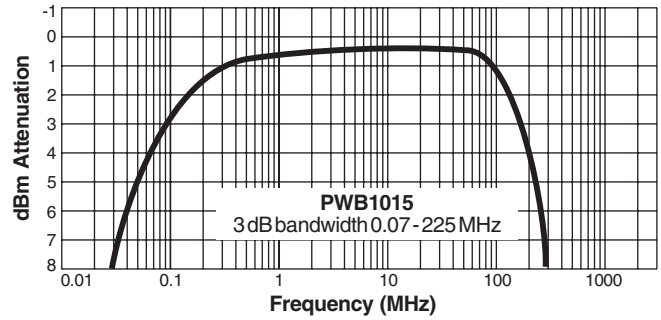
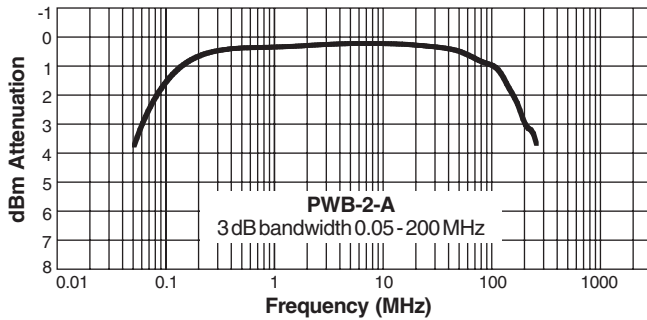
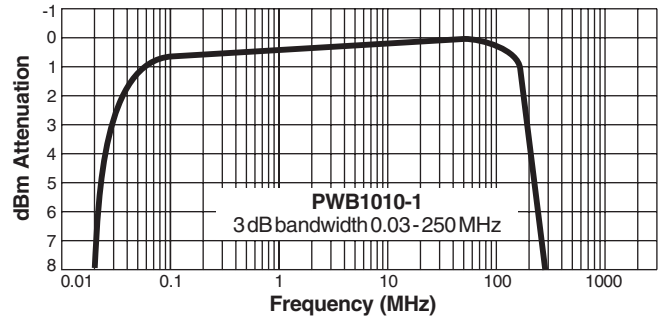
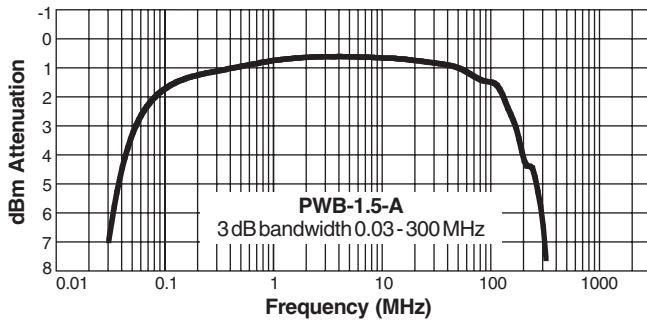
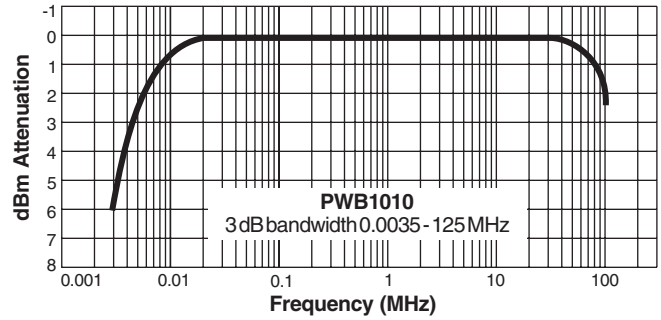
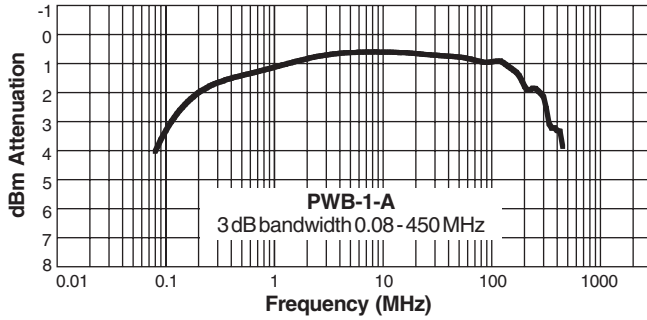
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NEW!

Type A Transformers



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



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Document 591-3 Revised 10/15/07

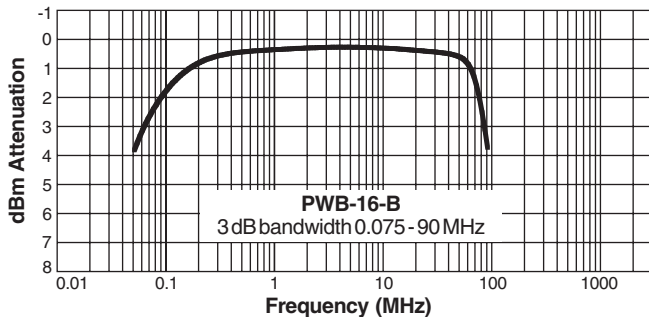
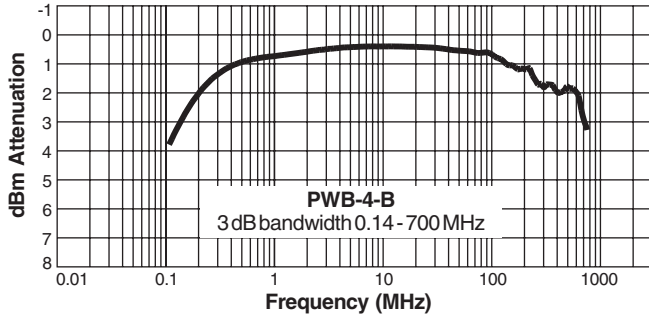
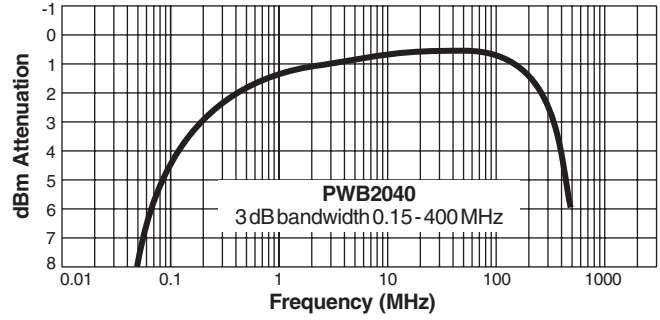
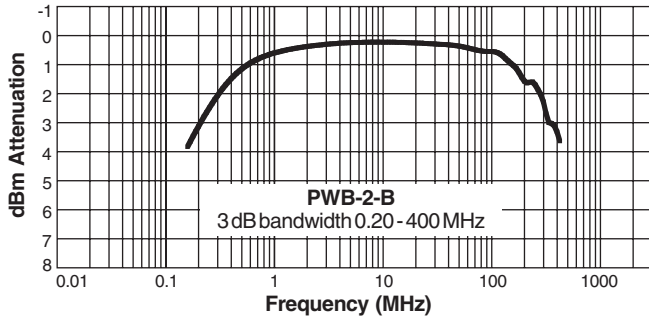
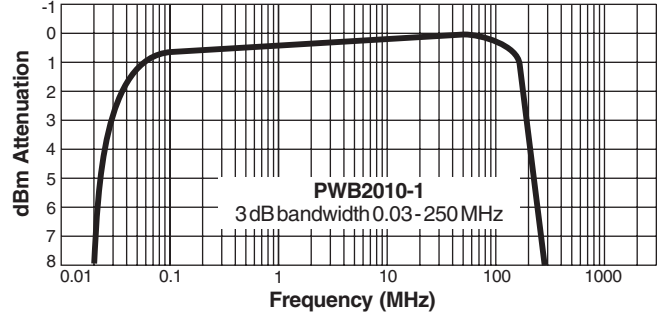
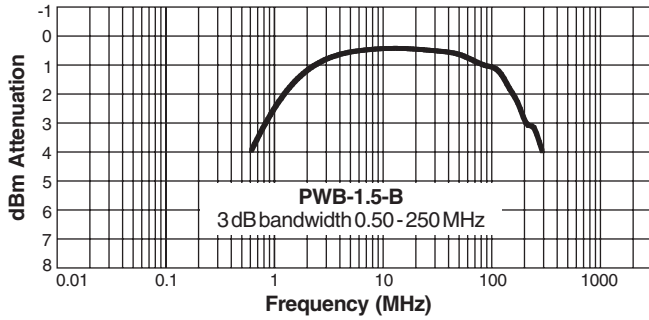
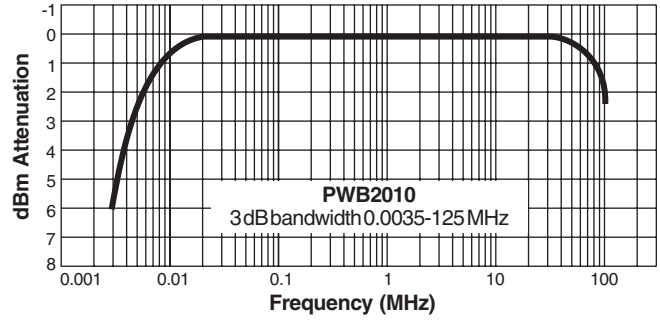
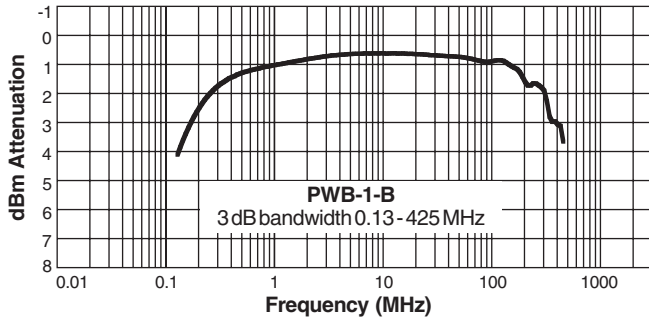
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Type B Transformers



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



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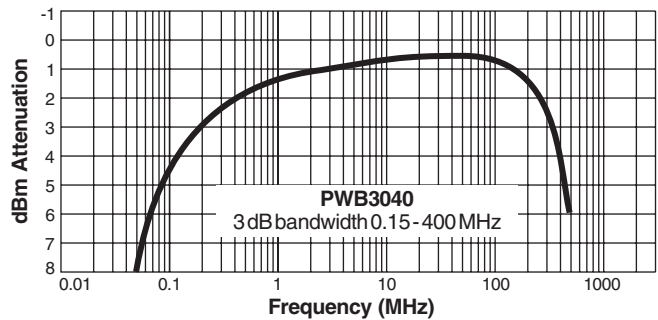
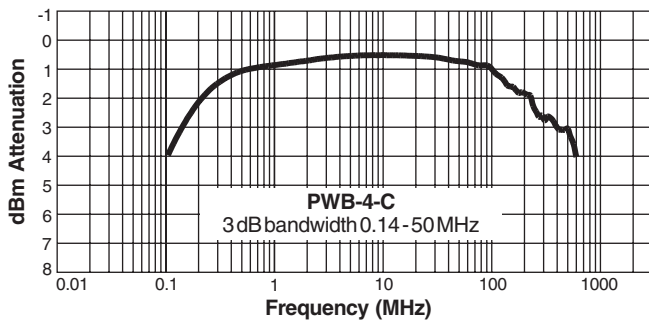
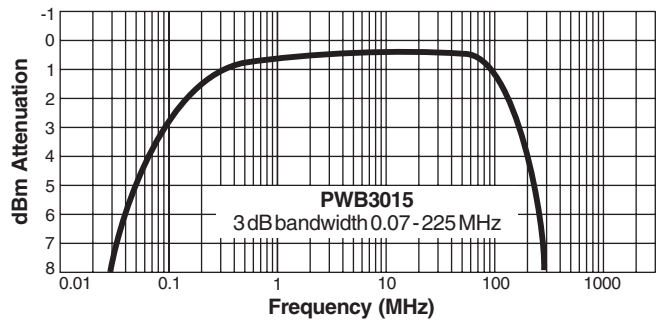
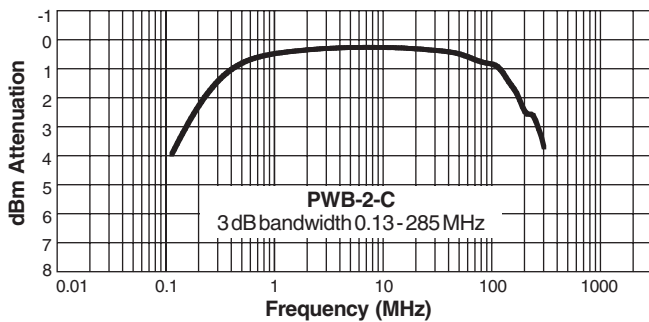
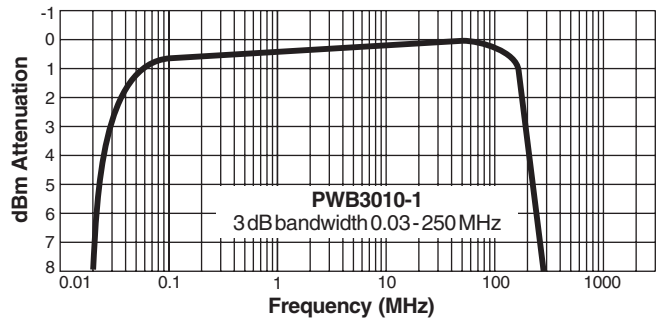
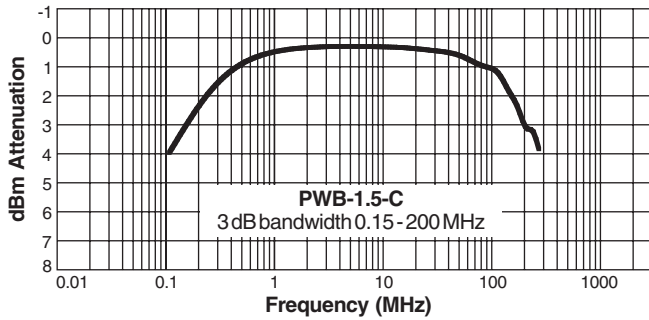
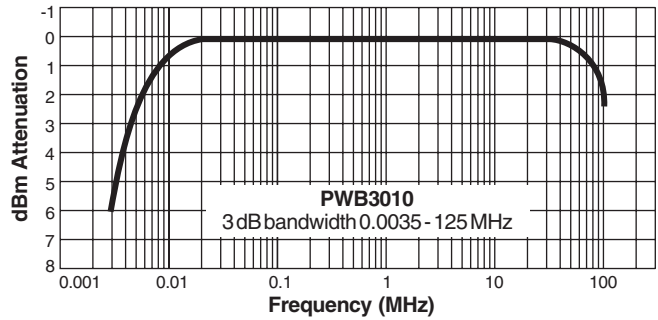
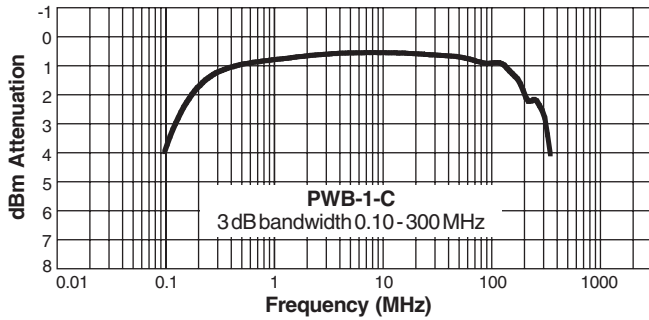
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NEW!

Type C Transformers



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



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