January 30, 2007

DATATRONIC
DISTRIBUTION, INC.

WIDEBAND RF TRANSFORMERS

PT108 Series RF Transformers

Features

- **Designed for use in Wideband R.F. Applications**
- **Frequency Range 0.5 to 1500MHz bandwidth**
- **Excellent Insertion Loss**
- **Operating temperature range -40ºC to +85ºC**
- **Miniature Surface Mount Package**
- **Various and Customs Impedance ratios available**
- **Tinned Leads with Leaded Solder is Available** (note 6)

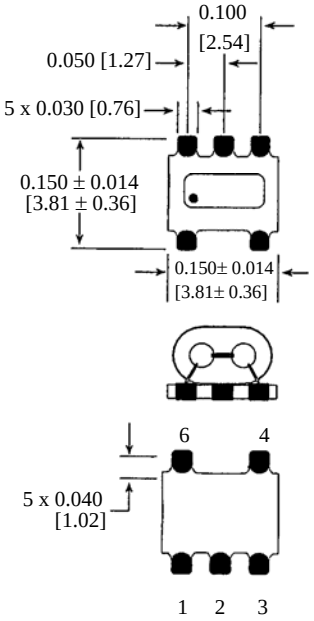


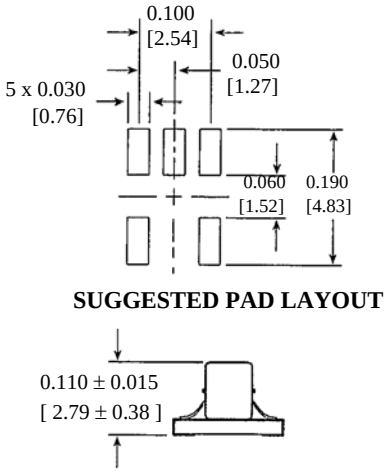
ELECTRICAL SPECIFICATIONS AT 25°C

Part Number	Ratio Impedance Pri : Sec (±2%)	Turns Ratio Pri : Sec (±2%)	Bandwidth (MHz TYP)			Insertion Loss (dB Typ)	Schematic
			3dB	2dB	1dB		
PT108-0	1:1	1:1	>1800	Up to 1500	0.1 - 800	0.1	C*
PT108-2	1:1	1:1	1.5 - 500	2.5 - 300	5.0 - 250	0.90	A
PT108-3	1:4CT	1:2CT	0.6 - 300	1.0 - 280	2.0 - 250	0.70	B

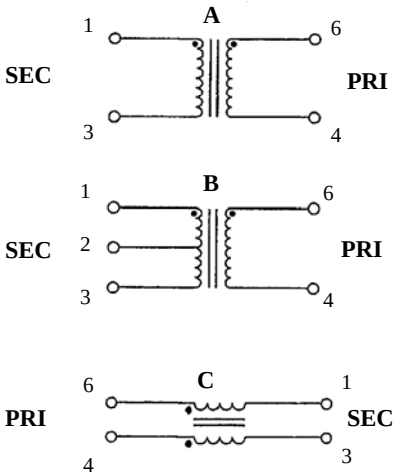
*4 and 6 are Primary Pins.

OUTLINE DIMENSIONS





Schematics

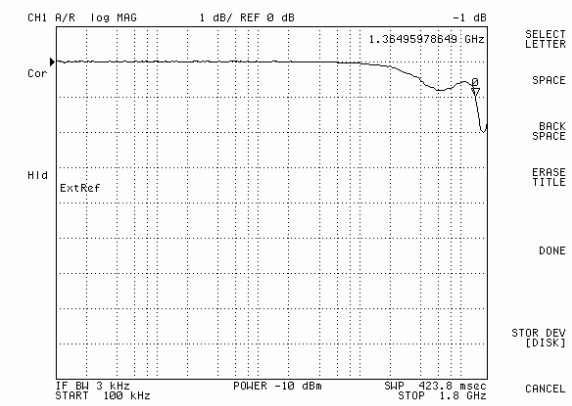


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E-Mail: ddisales@datatronics.com
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All specifications are subject to change without notice.

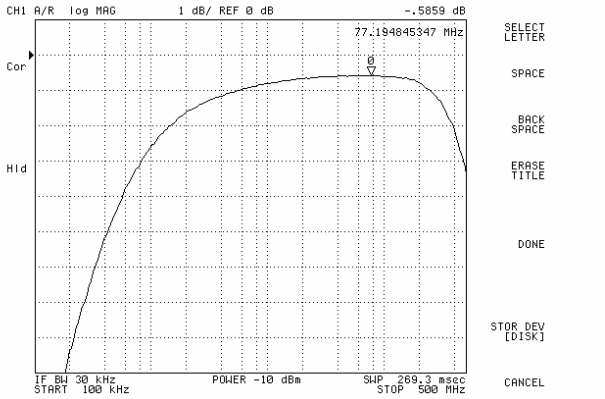
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TYPICAL FREQUENCY RESPONSE

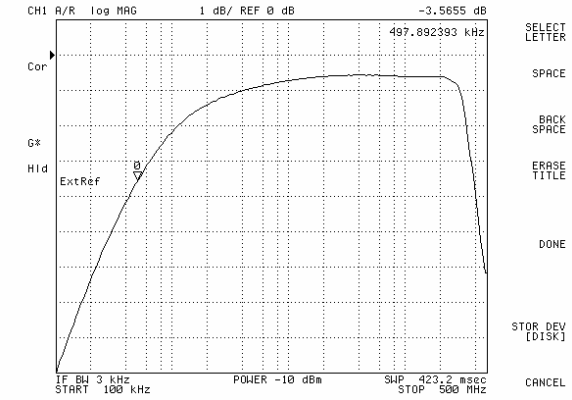
PT108-0 – Typical Insertion Loss @ 25°C



PT108-2 – Typical Insertion Loss @ 25°C



PT108-3 – Typical Insertion Loss @ 25°C



Notes:

1. Dimensions are shown in inches/millimeters
   Unless otherwise specified, tolerance: ±0.010 / 0,25
2. Bandwidth specifications are typical in a 50Ω system
3. Bandwidth is referenced to mid-band loss
4. Impedance and turns ratio are specified primary : secondary
5. Tape and reel quantity, 2600 pcs/reel
6. For non-RoHS parts replace PT prefix with 42- (e.g. PT108-0 becomes 42-108-0)
7. Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020C.

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