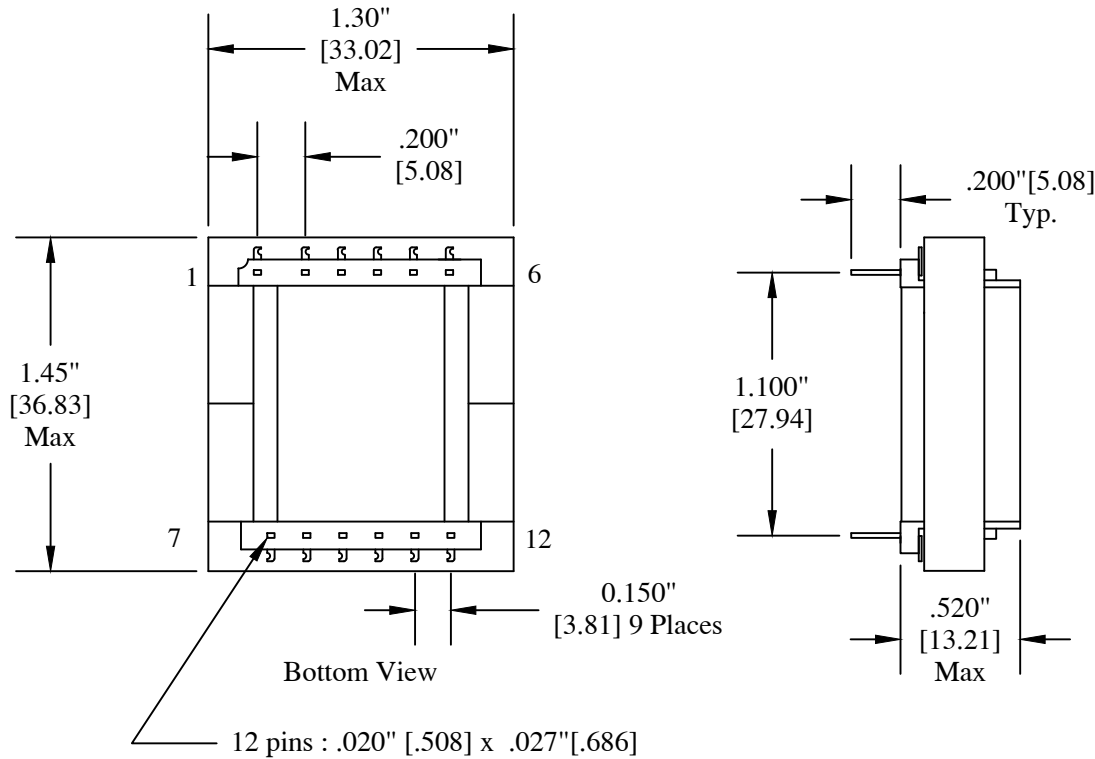
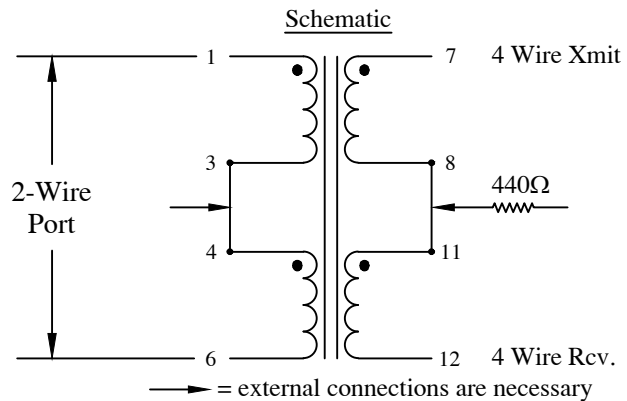


- 2 TO 4 WIRE HYBRID TRANSFORMER "WET" AND "DRY".
- OPERATING LEVEL -45 TO +7dBm.
- DESIGNED FOR 50 mADC CIRCUITS.
- CAN BE CONNECTED AS A DUAL-HYBRID FOR HIGHER PERFORMANCE.
- UL RECOGNIZED COMPONENT - UL 1863, FILE E138250.



All dimensions are reference unless otherwise specified.



REVISIONS			
DATE	REV	DESCRIPTION	APP'VD
9-23-93	-1	Added THD specification	TJK
6-03-97	-2	Delete 0.720" Ref. dimension	MM
3-21-16	-3	Updated entire drawing, add millimeters	TJK
11/27/19	-4	Corrected pin numbers in schematic; added where the DC resistance values are measured	TJK

Electrical Parameters:

- 2-Wire Impedance: 600Ω
- 4-Wire Impedances: 600Ω each typical
- Turns Ratio: 1 : 1.60
- D.C. Resistance of 2-Wire Wdg (1 - 6): 74.0 Ω typical
- D.C. Resistance of 4-Wire Wdg (7 - 12): 138.0 Ω total typical
- Maximum unbalance D.C. Current (2-Wire side): 50mA
- Dielectric Strength 1500Vrms: PRI - SEC - CORE
- Frequency Response 300Hz - 3500Hz: +/- 0.5dB
- Hybrid Loss: 4.5dB Typical @300Hz
- Primary Return Loss 1200Ω Load:
 - ≥ 14dB@300Hz
 - ≥ 23dB@1KHz
 - ≥ 28dB@4KHz
- THD @0dBm 300Hz: -64dB typ. 1200Ω Load 7-12 (tie 8-11)
- Trans-Hybrid Balance (440Ω Balance resistor)
 - > 18dB@300Hz
 - > 28dB@1KHz
 - > 34dB@4KHz
- Longitudinal Balance: 60dB min per IEEE 455-1985

PREM MAGNETICS INCORPORATED		CUSTOM ENGINEERING MAGNETIC COMPONENTS Johnsburg, Illinois 3521 N. Chapel Hill Rd. / McHenry, Illinois 60051	
SCALE: None	APPROVED BY: <i>Tj Klotz</i>		DRAWN BY TJK
DATE: 03-21-2016			REVISED
Single Hybrid Transformer p/n SPT-182			
			DRAWING NUMBER B-SPT-182