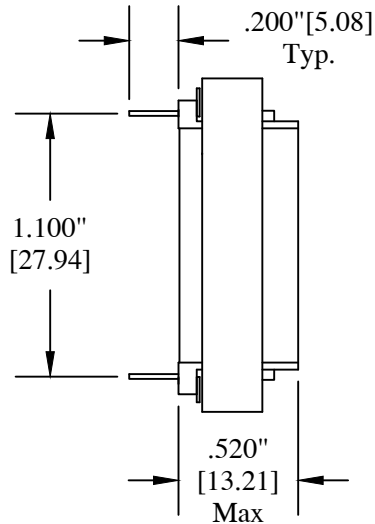
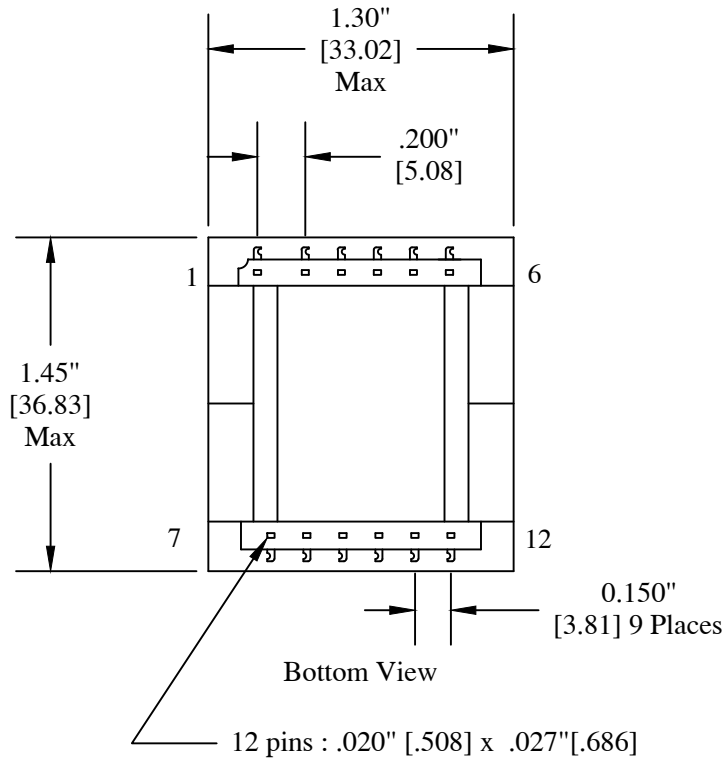


- 2 TO 4 WIRE HYBRID TRANSFORMER "DRY".
- OPERATING LEVEL -45 TO +7dBm.
- DESIGNED FOR 0 DC CIRCUITS.
- CAN BE CONNECTED AS A DUAL-HYBRID FOR HIGHER PERFORMANCE.
- UL RECOGNIZED COMPONENT - UL 1863, FILE E138250.

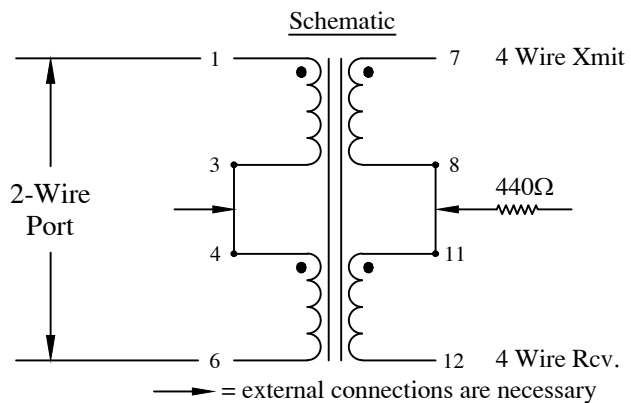


REVISIONS			
DATE	REV	DESCRIPTION	APP'VD
11/27/19	-1	Corrected pin numbers in schematic; Added where the DC resistance values are measured;	TJK

Electrical Parameters:

- 2-Wire Impedance: 900Ω
- 4-Wire Impedances: 600Ω each typical
- Turns Ratio: 1 : 1.257
- D.C. Resistance of 2-Wire Wdg (1 - 6): 120.0 Ω typical
- D.C. Resistance of 4-Wire Wdg (7 - 12): 137 Ω total typical
- Maximum unbalance D.C. Current (2-Wire side): 0mA
- Dielectric Strength 1500Vrms: PRI - SEC - CORE
- Frequency Response 300Hz - 3500Hz: +/- 0.5dB
- Hybrid Loss: 4.5dB Typical @300Hz
- Primary Return Loss 1200Ω Load:
 - ≥ 20dB@300Hz
 - ≥ 25dB@1KHz
 - ≥ 28dB@4KHz
- THD @0dBm 300Hz: -65dB typ. 1200Ω Load 7-12 (tie 8 - 11)
- Trans-Hybrid Balance (440Ω Balance resistor)
 - > 23dB@300Hz
 - > 32dB@1KHz
- Longitudinal Balance: 60dB min per IEEE 455-1985

All dimensions are reference unless otherwise specified.



PREM MAGNETICS INCORPORATED		CUSTOM ENGINEERING MAGNETIC COMPONENTS Johnsburg, Illinois 3521 N. Chapel Hill Rd. / McHenry, Illinois 60051	
SCALE: None	APPROVED BY:	DRAWN BY TJK	
DATE: 03-17-2016	<i>Tj Klotz</i>	REVISED	
Single Hybrid Transformer p/n SPT-181			
			DRAWING NUMBER
			SPT-181