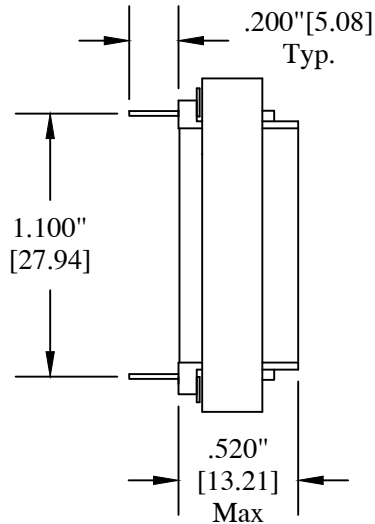
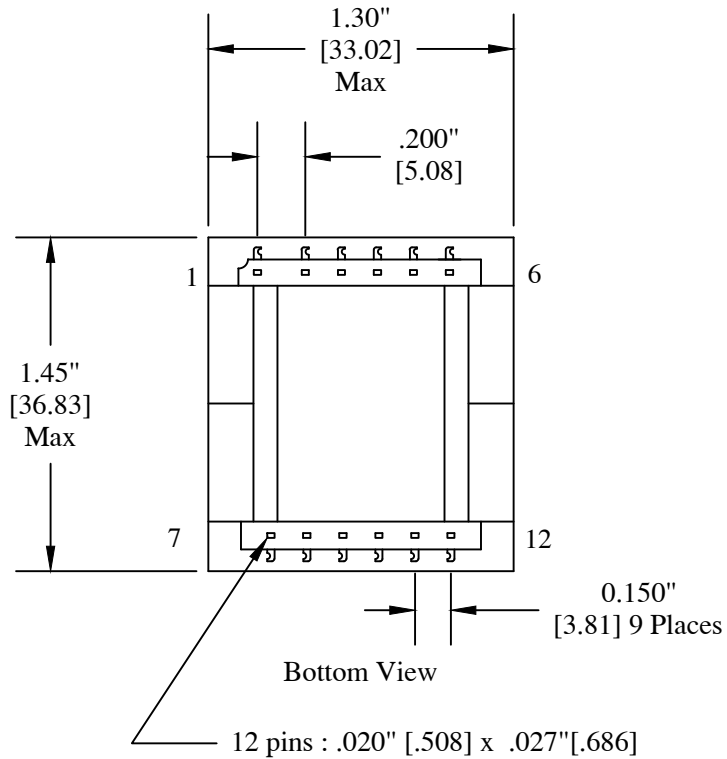


- 2 TO 4 WIRE HYBRID TRANSFORMER "DRY".
- OPERATING LEVEL -45 TO +7dBm.
- DESIGNED FOR 0 DC CIRCUITS.
- CAN BE CONNECTED AS A DUAL-HYBRID FOR HIGHER PERFORMANCE.
- UL RECOGNIZED COMPONENT - UL 1863, FILE E138250.

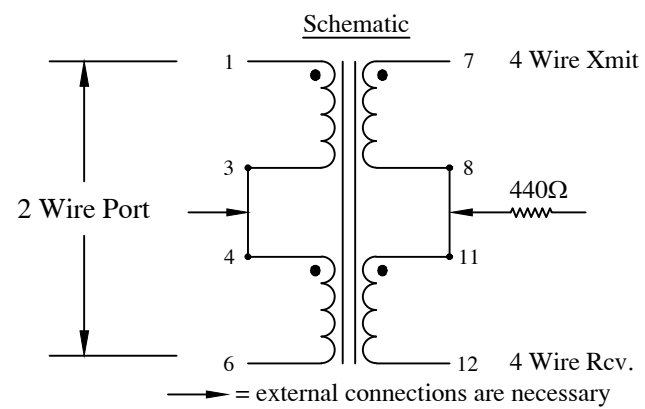


REVISIONS			
DATE	REV	DESCRIPTION	APP'VD
11/26/19	-1	Corrected pin numbers in schematic; Added where the DC resistance values are measured; Corrected Balance resistor, was 330 ohms; Added 4kHz return loss value	TJK

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): 74.0Ω typical
 D.C. Resistance of 4-Wire Wdg (7 - 12): 138.0Ω 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)
 > 25dB@300Hz
 > 34dB@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-180			
DRAWING NUMBER			SPT-180