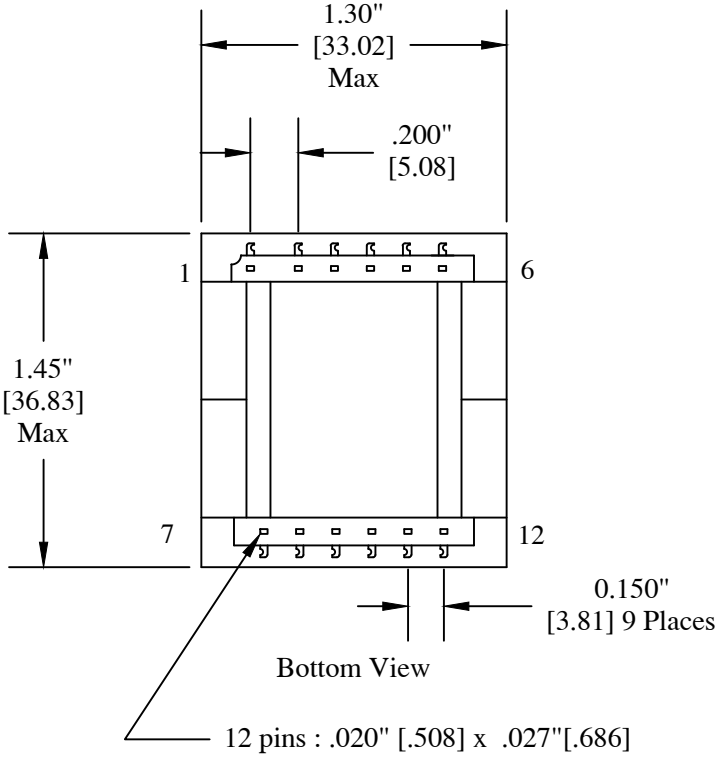
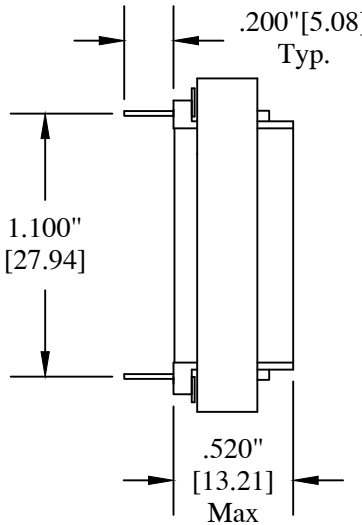
- 2 TO 4 WIRE HYBRID TRANSFORMER "WET" AND "DRY".
- OPERATING LEVEL -45 TO +7dBm.
- DESIGNED FOR 50 mADC CIRCUITS.
- CAN BE CONNECTED AS A DUAL-HYBRID FOR HIGHER PERFORMANCE.
- UL RECOGNIZED COMPONENT - UL 1863, FILE E138250.

REVISIONS			
DATE	REV	DESCRIPTION	APPV'D
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; corrected turns ratio (was 1:1.16);	TJK



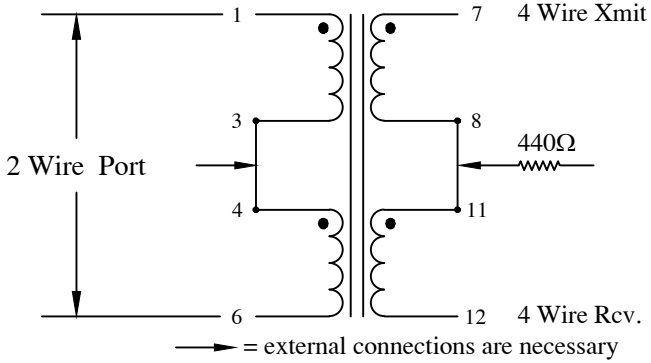


All dimensions are reference unless otherwise specified.

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): 137.0 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:
≧12dB@300Hz
≧20dB@1KHz
≧26dB@4KHz
THD @0dBm 300Hz: -64dB typ. 1200Ω Load 7 - 12 (tie 8-11)
Trans-Hybrid Balance (440Ω Balance resistor)
＞17dB@300Hz
＞27dB@1KHz
Longitudinal Balance: 60dB min per IEEE 455-1985

Schematic



PREM® MAGNETICS INCORPORATED

CUSTOM ENGINEERING MAGNETIC COMPONENTS
Johnsburg, Illinois
3521 N. Chapel Hill Rd. / McHenry, Illinois 60051

SCALE: None	APPROVED BY: Tj Klotz	DRAWN BY TJK
DATE: 03-21-2016		REVISED

Single Hybrid Transformer p/n SPT-183

DRAWING NUMBER
B-SPT-183