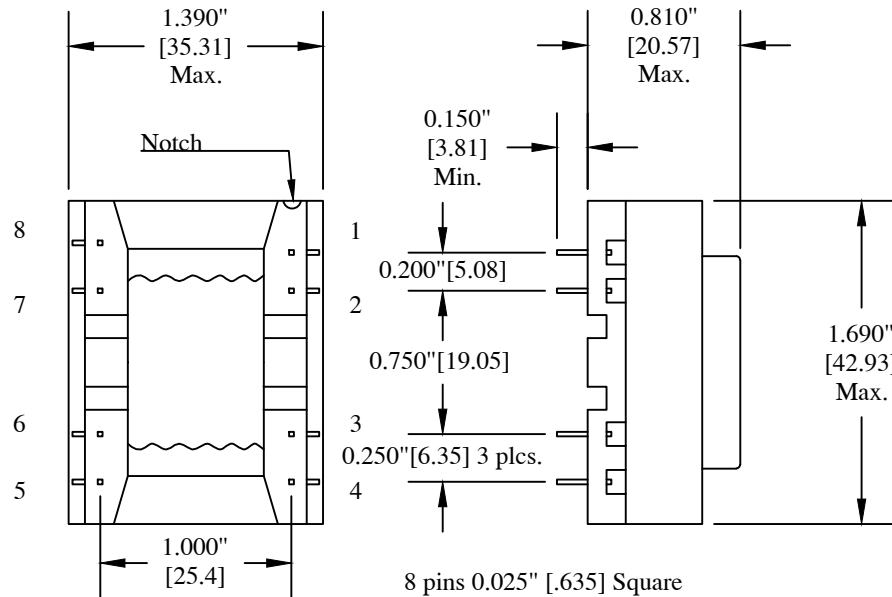


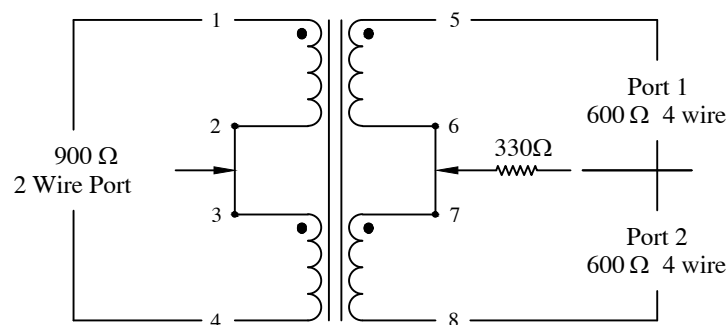
- 2 TO 4 WIRE HYBRID TRANSFORMER "WET" AND "DRY".
- OPERATING LEVEL -45 TO +7dBm.
- DESIGNED FOR 120mA MAX DC CIRCUITS.
- CAN BE CONNECTED AS A DUAL-HYBRID FOR HIGHER PERFORMANCE.
- UL RECOGNIZED COMPONENT - UL 1863, FILE E138250.

REVISIONS			
DATE	REV	DESCRIPTION	APPV'D
05/18/89	-1	Chg width & length dims, were 1.350" & 1.650"	Tjk
10/27/92	-2	Chg pin length, was 0.180" max.	Tjk
03/16/16	-3	Updated entire drawing; added millimeters	Tjk



Bottom View

Schematic



→ = external connections are necessary
 0.012 μF capacitor across 5 - 8
 for optimum Transhybrid Balance

Electrical Parameters:

2-Wire Impedance: 900Ω
 4-Wire Impedances: 600Ω
 Turns Ratio: 1 : 1.158
 D.C. Resistance of 2-Wire Wdg: 47.55Ω Typical each
 D.C. Resistance of 4-Wire Wdg: 65.62Ω Typical each
 Maximum unbalance D.C. Current (2-Wire side): 120mA
 Dielectric Strength 1500Vrms: P - S - C Instant
 Frequency Response 300Hz - 3500Hz: +/- 0.5dB
 Hybrid Loss: 4.5dB Typical @300Hz
 Primary Return Loss 1200Ω Load:
 ≥ 10dB@300Hz
 ≥ 21dB@1KHz (0.012μF cap across 5 - 8 for optimum load)
 THD @0dBmm 300Hz: -50dB typ. 1200Ω Load 5-8 (tie 6-7)
 Trans-Hybrid Balance (330Ω Balance resistor & 0.012μF across 5 - 8):
 > 14dB@300Hz
 > 28dB@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: <i>Tj Klotz</i>		DRAWN BY Tjk.
DATE: 03-16-16			REVISED
Mechanical / Electrical Drawing for Part SPT-177			
(Single Hybrid Transformer)			DRAWING NUMBER SPT-177