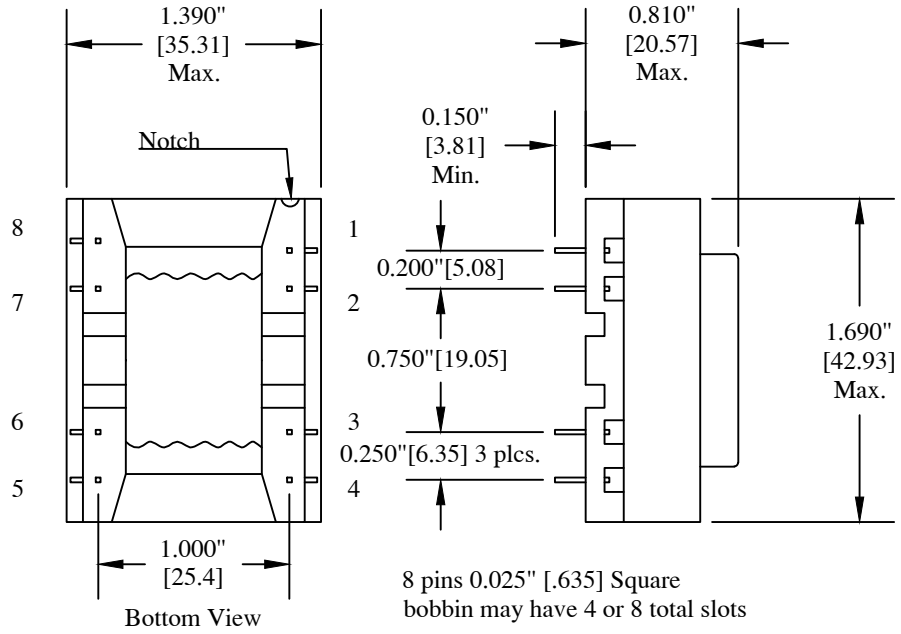
- 2 TO 4 WIRE HYBRID TRANSFORMER "WET" AND "DRY".
- OPERATING LEVEL -45 TO +7dBm.
- DESIGNED FOR 120mA MAX DC CIRCUITS.
- CAN BE CONNECTED AS A DUAL-HYBRID FOR HIGHER PERFORMANCE.
- UL RECOGNIZED COMPONENT - UL 1863, FILE E138250.

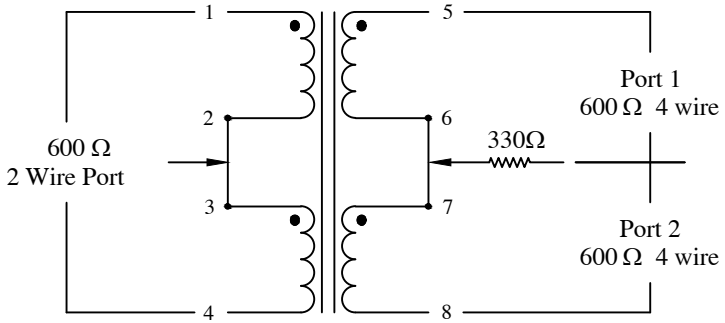
REVISIONS			
DATE	REV	DESCRIPTION	APPV'D



Electrical Parameters:

2-Wire Impedance: 600Ω
4-Wire Impedances: 600Ω
Turns Ratio: 1 : 1.429
D.C. Resistance of 2-Wire Wdg: 38.54Ω Typical each
D.C. Resistance of 4-Wire Wdg: 63.85Ω 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:
≧11dB@300Hz
≧22dB@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):
>15dB@300Hz
>31dB@1KHz
Longitudinal Balance: 60dB min per IEEE 455-1985

Schematic



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

All dimensions are reference unless otherwise specified.

PREM® MAGNETICS INCORPORATED

CUSTOM ENGINEERING MAGNETIC COMPONENTS
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SCALE: None	APPROVED BY: Tj Klotz	DRAWN BY Tjk.
DATE: 03-09-16		REVISED

Mechanical / Electrical Drawing for Part SPT-176

(Single Hybrid Transformer)

DRAWING NUMBER
SPT-176