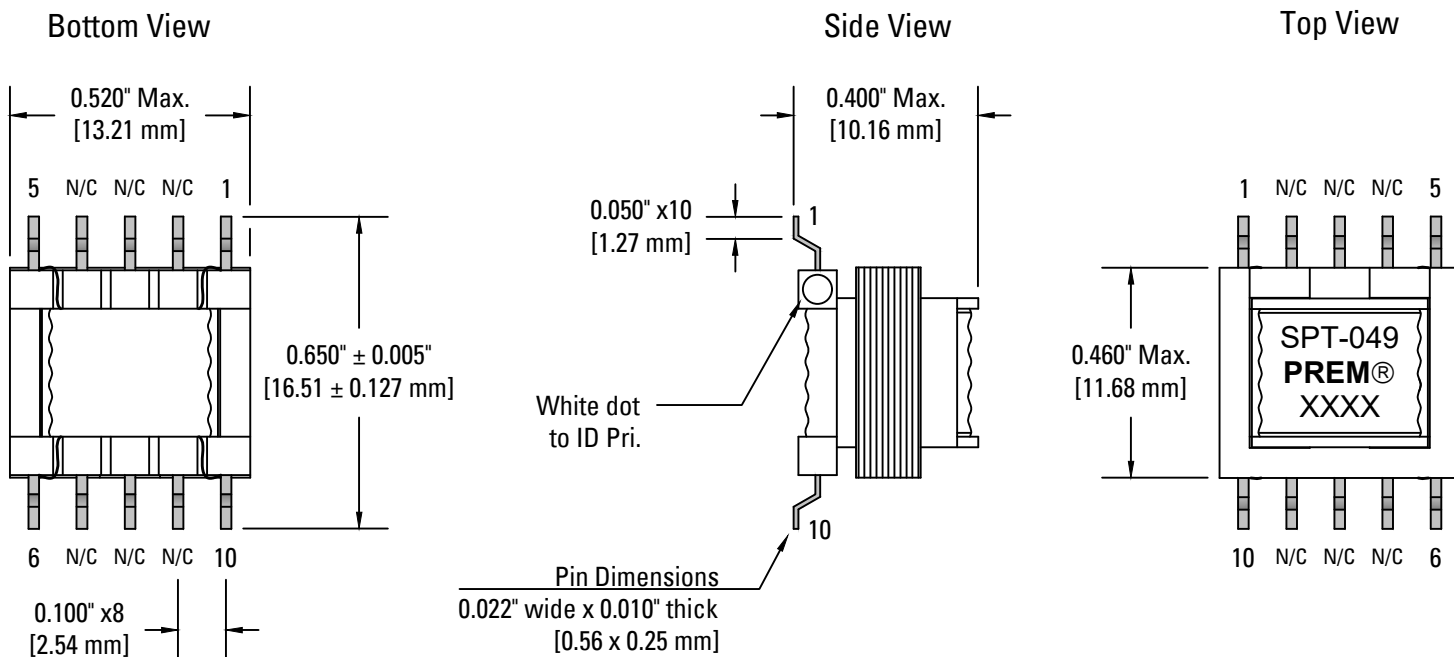


Prem's **SPT-049** is a surface mount, voice & data transformer. It is designed to be used within PCMCIA modem applications.

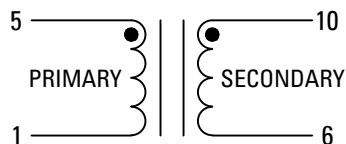
- Rated for maximum working voltage of 250 V
 - Designed for dry (no DC) circuits
 - Impedance ratio: 600 Ω to 600 Ω
 - Dielectric strength: 1500 V_{RMS} for 1 minute minimum
 - Suitable for V.34 modems (28.8 kbps / 56 kbps)
- Utilizes supplementary insulations
 - UL 94V-0-rated bobbin
 - Gull-wing lead style
 - Small board area: Less than 1.0" square
 - Low above-board height: Less than 0.525"

SPT-049
Data Sheet



All dimensions for reference only.

Schematic



• Dots indicate like polarity

ELECTRICAL SPECIFICATIONS

Primary Impedance (5 - 1) *	600 Ω
Secondary Impedance (10 - 6)	600 Ω
Maximum DC Unbalance	∅ A
Turns Ratio	1 : 1 ± 2%
Primary DCR (5 - 1)	128.6 Ω ± 10%
Secondary DCR (10 - 6)	176.0 Ω ± 10%
Frequency Response *	± 0.3 dB from 200 Hz - 4 kHz, 1 kHz Ref.
Insertion Loss *	3.15 dB Nom. @ 1 kHz
Return Loss *	15 dB Min. from 300 Hz - 3.5 kHz
Longitudinal Balance *	60 dB Min. per IEEE
Total Harmonic Distortion *	0 dBm @ 300 Hz: -60 dB Typ.
	-10 dBm @ 600 Hz: -82 dB Typ.
Dielectric Strength (Pri. to Sec. to Core)	1500 V _{RMS} (1 minute min.)

* Note: These tests utilize a resistive load of 310 Ω on the secondary to reflect 600 Ω.

11/21/18 | -6 | Updated data sheet contents & fmt.; corrected rev. log | AG

6/15/15 | -5 | Updated entire dwg. & added millimeter dimensions | TJK

7/23/96 | -4 | Chg. bobbin pin width | GG

6/5/96 | -3 | Added ref. to pin #'s | GG/TJK

6/3/96 | -2 | Chg. Ins. L. - was 2.3dB | GG

5/24/96 | -1 | Chg. DCR, I.L., & Load | GG

DATE | ISS. | REVISION | BY

Designed by: TJK 1/22/96
 Drawn by: AG 11/21/18
 Checked by: DB & TJK
 Drawing no.: --

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