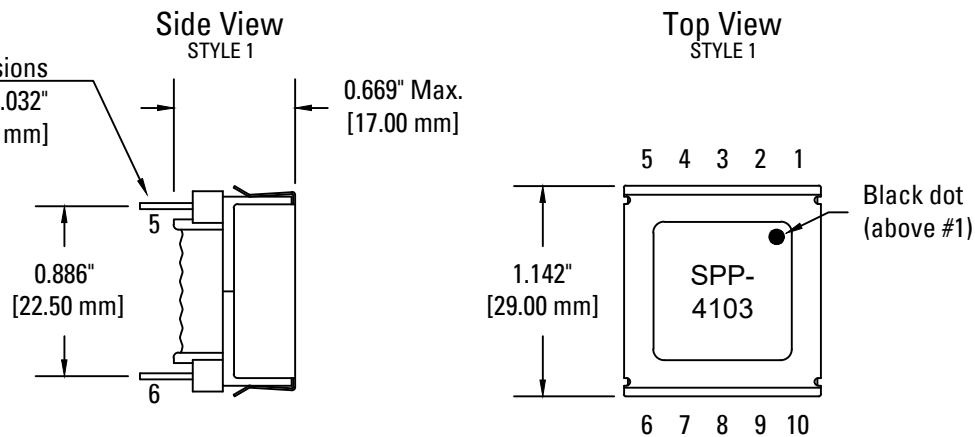
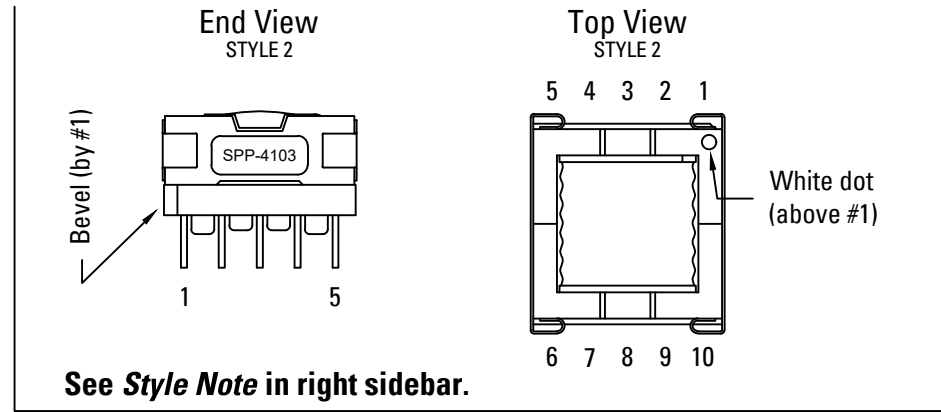
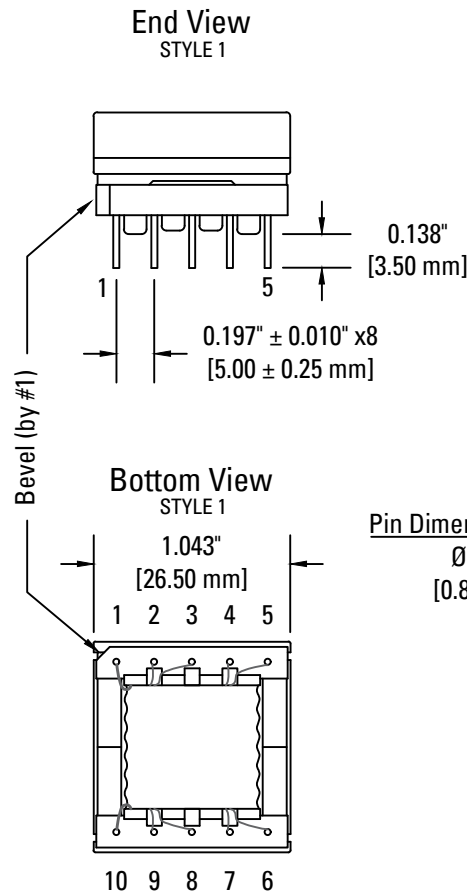
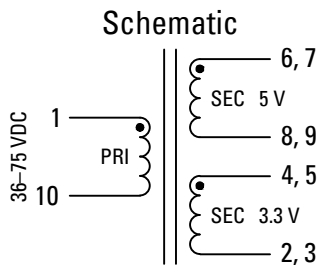


Prem's **SPP-4103** is a switchmode, through-hole, PCB-mounting transformer. It is designed to be used with a Power Integrations DPA425R integrated chip in a 50 W DC-to-DC forward converter application.

- Power over Ethernet (PoE) and telecom applications (36–75 VDC input)
- High efficiency of approx. 90% at 36 VDC with a 300 kHz switching frequency using simple self-driven synchronous rectification
- UL 94V-0-rated bobbin
- RoHS compliant



All dimensions for reference only, unless otherwise specified.



Designed for use with a Power Integrations DPA425R integrated chip in 50 W applications.

Input: 36–75 VDC @ 300 kHz
 Dual Output: 5 V @ 6 A
 3.3 V @ 6 A

• Dots indicate like polarity

ELECTRICAL SPECIFICATIONS	
DCR (1 - 10)	35 mΩ Max.
DCR (2, 3 - 4, 5)	2.5 mΩ Max.
DCR (6, 7 - 8, 9)	3.0 mΩ Max.
Primary Inductance (1 - 10) @ 0.4 V, 300 kHz	250 μH ± 25%
Leakage Inductance (1 - 10) @ 0.4 V, 300 kHz, with (6 - 7) to (8 - 9) & (4 - 5) to (2 - 3) shorted	0.8 μH Max.
Resonant Frequency (1 - 10), with other windings open	1.7 MHz Min.
Dielectric Strength (Primary to Secondaries & Core)	1500 VDC (1 second)

SPP-4103 Data Sheet

Style Note:

This unit is shown with the two possible core clamp & label styles. Both styles meet the dimensions shown.

STYLE 1 is the default style and uses a single-piece cover clamp. The label is on top of the clamp and the dot above #1 is black.

STYLE 2 is the alternate style and uses a two-piece core yoke. The label is on the side of the core and the dot above #1 is white.

10/17/19 | -2 | Corrected secondary DCR notation | AG

9/16/19 | -1 | Updated data sheet fmt.; added new core clamp unit STYLE 1; updated pin height & dia. dim. | AG

DATE | ISS. | REVISION | BY

Designed by: TJK 1/25/10
 Drawn by: AG 9/16/19
 Checked by: DB & TJK
 Drawing rev.: A-SPP-4103-2

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