

Prem's **SPP-4106** is a switchmode, surface mount, PCB-mounting transformer. It is designed to be used with a Power Integrations DPA426R integrated chip in a 60 W DC-to-DC flyback application.

- Power over Ethernet plus (PoE+) and various other applications (36–75 VDC input)
- Low-cost 400 kHz design at 36 VDC using flyback technology

- UL 94V-0-rated bobbin
- RoHS compliant

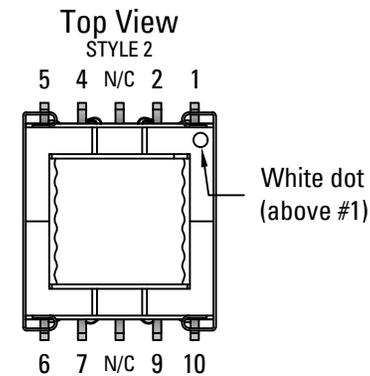
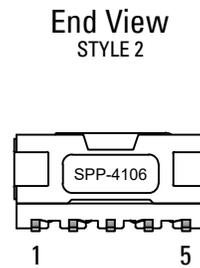
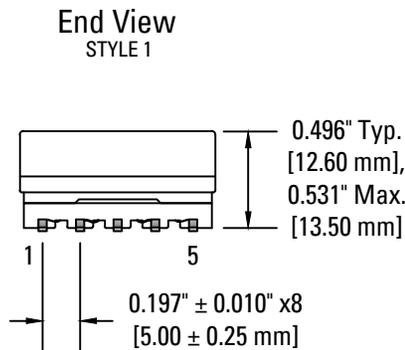
SPP-4106 Data Sheet

Style Note:

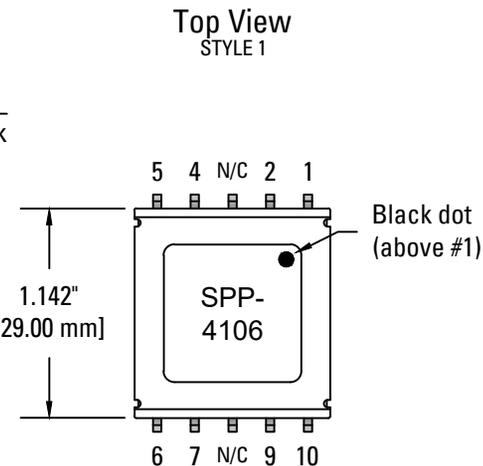
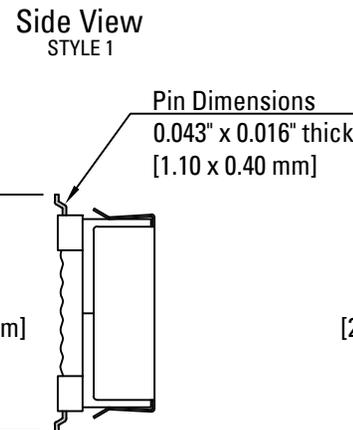
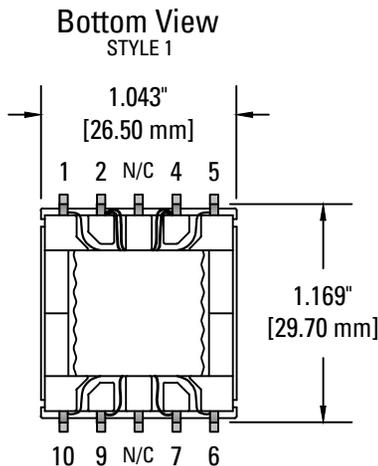
This unit is shown with the two possible core clamp & label styles. Both styles meet the dimensions shown.

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.

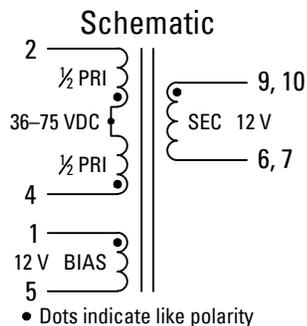
STYLE 2 is the alternate style and uses a two-piece core yoke. The label is on the side of the core and the dot above #1 is white.



See Style Note in right sidebar.



All dimensions for reference only, unless otherwise specified.



Designed for use with a Power Integrations DPA426R integrated chip in 60 W applications.

Input: 36–75 VDC @ 400 kHz
Bias: 12 V
Single Output: 12 V @ 5 A

Turns Ratio:
(4 - 2) : (9 - 6) = 1 : 0.3125
(4 - 2) : (10 - 7) = 1 : 0.3125
(4 - 2) : (1 - 5) = 1 : 0.3125

ELECTRICAL SPECIFICATIONS

DCR (4 - 2)	0.027 - 0.037 Ω
DCR (1 - 5)	0.176 - 0.238 Ω
DCR (9, 10 - 6, 7)	0.016 - 0.024 Ω
Primary Inductance (4 - 2) @ 0.4 V, 400 kHz	21 μH ± 10%
Leakage Inductance (4 - 2) @ 0.4 V, 400 kHz, with (1 - 5), (9 - 6), & (10 - 7) shorted	1 μH Max.
Resonant Frequency (4 - 2), with other windings open	3.0 MHz Min.
Dielectric Strength (Primary to Bias, Secondaries, & Core)	1500 VDC (1 second)

10/17/19 | -4 | Corrected secondary DCR notation | AG

12/14/18 | -3 | Updated data sheet fmt.; added new core clamp unit STYLE 1 | AG

6/14/16 | -2 | Updated entire dwg. | TJK

7/14/10 | -1 | Changed length dimension from 1.07" to 1.043" | TJK

DATE | ISS. | REVISION | BY

Designed by: TJK 4/9/10
Drawn by: AG 10/4/18
Checked by: DB & TJK
Drawing rev.: SPP-4106-4

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