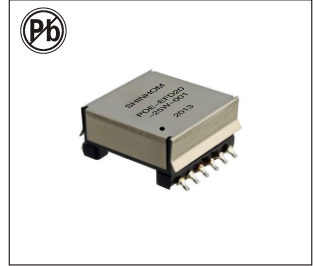


POE DC/DC TRANSFORMERS POE-EFD SERIES



Features

- Surface mount
- Power from 25 to 60 W
- Output voltage from 5 to 12 V
- Operating temperature: -40°C up to +105°C
- RoHS compliant

Applications

- VoIP phones
- WLAN APs
- Security IP cameras
- Routers
- Gateways

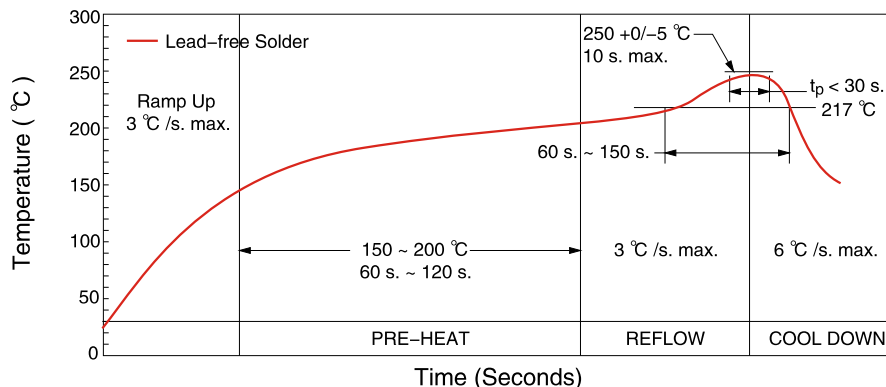
ELECTRICAL CHARACTERISTICS:@25°C

Part Number	Primary Inductance		Leakage Inductance		DCR		Turns ratio		Input Voltage Switching Frequency	Main Output
POE-EFD20-25W-001	(1,2-3,4) w/ (1,2 & 3,4 shorted) @ 250 kHz / 0.5 V	70uH ± 10%	(1,2-3,4) w/ (1,2 & 3,4 & 5,6 & 7,8,9,10,11,12 shorted) @ 250 kHz / 0.5 V	0.62uH max.	(1,2-3,4) w/ (1,2 & 3,4 shorted)	75mΩ max	(1,2-3,4 : 5-6) w/ (1,2 & 3,4 shorted)	2.44 ± 3%:1	36 V – 57 V 250 kHz	5.0 V 5.0 A
					(5-6)	250mΩ max				
					(7,8,9-10,11,12) w/ (10,11,12 & 7,8,9 shorted)	5mΩ max	(1,2-3,4 : 7,8,9-10,11,12) w/ (1,2 & 3,4 & 10,11,12 & 7,8,9 shorted)	5.5 ± 3%:1		
POE-EFD20-19W-001	(1-2) @ 250 kHz / 0.1 V	75uH ± 10%	(1-2) w/ (7,8,9,10,11,12 shorted) @ 250 kHz / 0.1 V	3uH max.	(1-2)	100mΩ max	(1-2 : 5-6) (1-2 : 7-12) (1-2 : 8-12) (1-2 : 10-12)	3.33 ± 3%:1 3.33 ± 3%:1 6.67 ± 3%:1 10 ± 3%:1	40 V – 57 V 250 kHz	5.0 V 3.8 A
					(5-6)	120mΩ max				
					(7-8)	55mΩ max				
					(8-10) w/ (9,10 shorted)	5mΩ max				
					(12-10) w/ (12,11 & 10,9 shorted)	5mΩ max				
POE-EFD20-60W-001	(1,2-3,4) w/ (1,2 & 3,4 shorted) @ 100 kHz / 0.1 V	100uH ± 10%	(1,2-3,4) w/ (1,2 & 3,4 & 5,6 & 7,8,9,10,11,12 shorted) @ 100 kHz / 0.1 V	0.35uH max.	(1,2-3,4) w/ (1,2 & 3,4 shorted)	39mΩ max	(1,2-3,4 : 5-6) w/ (1,2 & 3,4 shorted)	1.71 ± 3%:1	36 V – 72 V 250 kHz	12.0 V 5.0 A
					(5-6)	90mΩ max				
					(7,8,9-10,11,12) w/ (12, 11, 10 & 9,8,7 shorted)	12mΩ max	(1,2-3,4 : 7,8,9-10,11,12) w/ (1,2 & 3,4 & 12,11,10 & 9,8,7 shorted)	1.71 ± 3%:1		
POE-EFD25-50W-001	(1-3) @ 100 kHz / 0.1 V	65uH ± 10%	(1-3) w/ (7,8,9,10,11,12 shorted) @ 100 kHz / 0.1 V	750nH max.	(1-3)	75mΩ max	(1-3 : 5-6)	2.5 ± 3%:1	42.5 V – 57 V 250 kHz	12.0 V 4.2 A
					(5-6)	280mΩ max	(1-3 : 7,8,9-10,11,12)	2.5 ± 3%:1		
					(7,8,9-10,11,12) w/ (10,11,12 & 7,8,9 shorted)	20mΩ max	(1-2 : 6-7) w/ (10,11,12 & 7,8,9 shorted)	4.5 ± 3%:1		

Hi-Pot for PRI-SEC is 1500 Vac (60 Hz / 2 sec / 1 mA);
POE20-60W-001 Hi-Pot for PRI-SEC: 1875 Vac (60 Hz / 2 sec / 1 mA)

SOLDERING PROFILE:

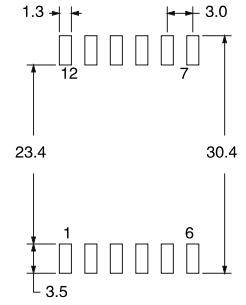
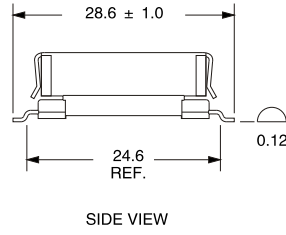
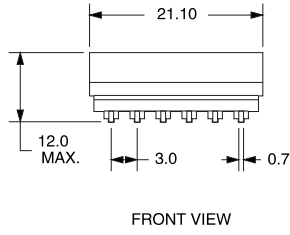
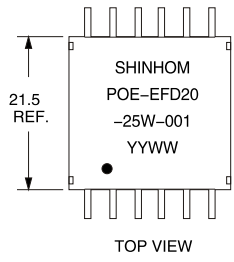
The duration from room temperature (25 °C) to peak temperature is 8 minutes maximum.



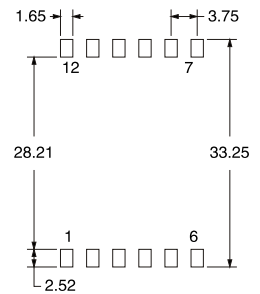
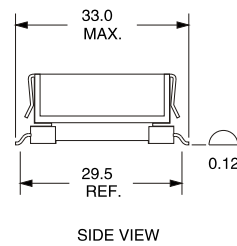
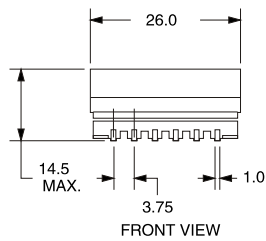
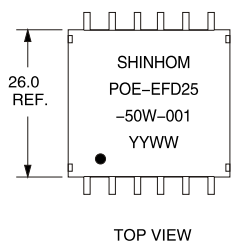
PHYSICAL CHARACTERISTICS:(mm)

LAYOUT:

POE-EFD20

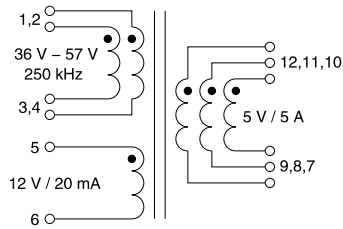


POE-EFD25



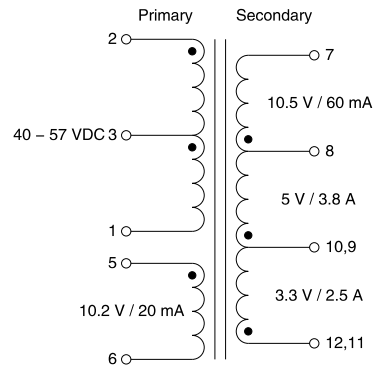
ELECTRICAL SCHEMATIC:

POE-EFD20-25W-001

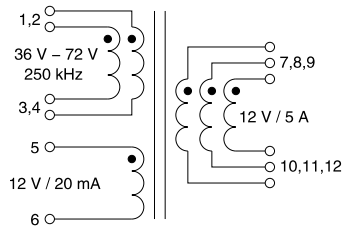


Primary windings and secondary windings to be connected in parallel on PC board.

POE-EFD20-19W-001

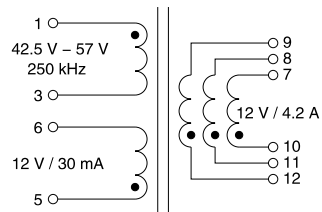


POE-EFD20-60W-001



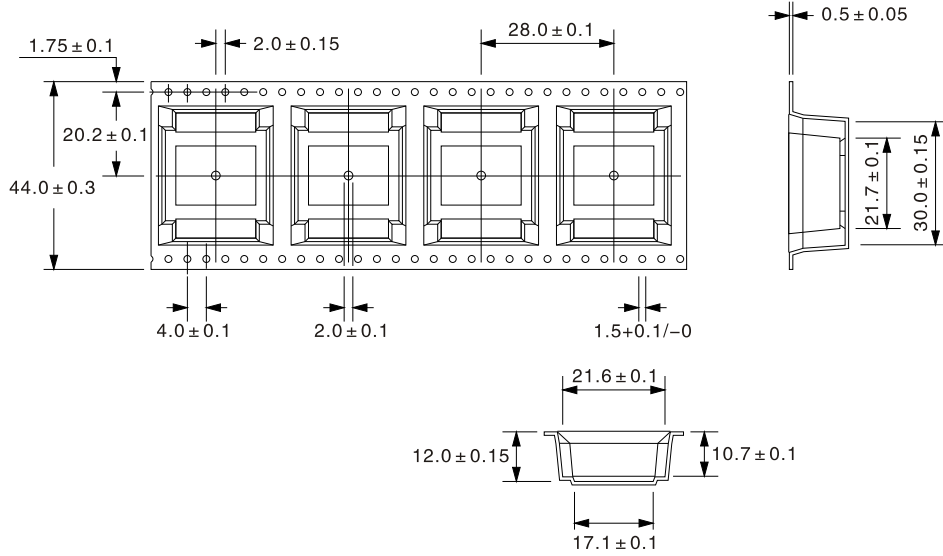
Primary windings and secondary windings to be connected in parallel on PC board.

POE-EFD25-50W-001



PACKAGING SPECIFICATIONS:(mm)

POE-EFD20 150 pcs/reel, 2 reels/carton, 300 purchase.



POE-EFD25 100 pcs/reel, 2 reels/carton, 200 purchase.

