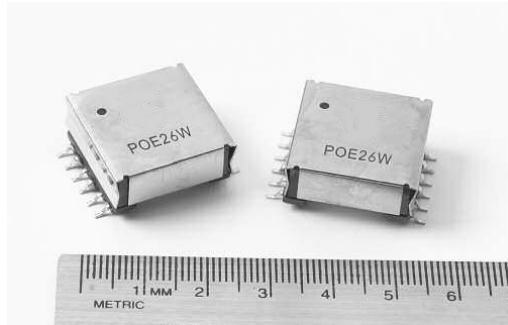


Power Over Ethernet (PoE)/PD

Configurable forward transformer



Product features

- Versatile design allows multiple output variations
- Forward topology, 300 kHz switching frequency
- Input range from 29.5 V - 60.0 V
- 1500 Vac isolation between primary and secondary
- Power 26 watts
- Low leakage inductance

Applications

- For IEEE 802.3af-compliant Power over Ethernet applications
- UPS, VoIP phone, Wireless LAN access point, Bluetooth access point, Network camera, Building access systems
- Retail Point-of-information systems
- Vending and gaming machines

Environmental data

- Storage temperature range (component): -40 °C to +125 °C
- Operating temperature range: -40 °C to +125 °C (ambient plus self-temperature rise)
- Solder reflow temperature: J-STD-020 (latest revision) compliant



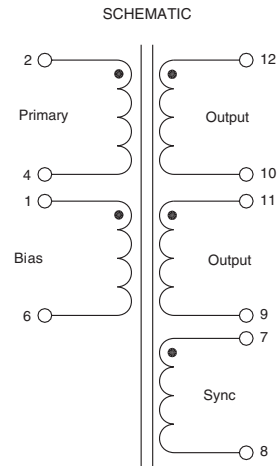
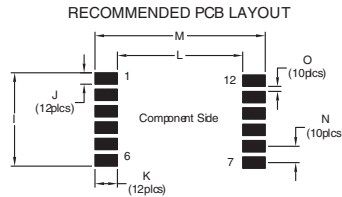
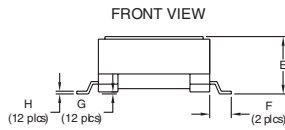
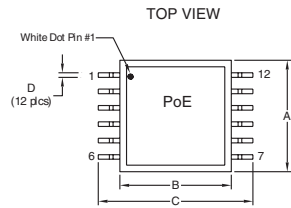
Product specifications

Part Number	Watts	Primary Induct. (uH)	Output	Bias	Sync	DCR/ Pri (ohms) max	DCR/ Sec (ohms) max	DCR/ Bias (ohms) max	DCR/ Sync (ohms) max	Leakage Induct. (uh) typ.	Pri Current Pk (Adc)	Turns ratio pins Pri (2 - 4): V1 (12 - 10): V2 (11 - 9): Bias (1 - 6): Sync (7 - 8)
PoE26W3.3VS5-R	26	160	(2)x3.3V@4.0A	10.0V@0.1A	5V@0.1A	0.100	0.025	0.90	0.42	1.0	2.6	1:0.29:0.29:0.83:0.42 +/-2%
PoE26W3.3VS10-R	26	160	(2)x3.3V@4.0A	10.0V@0.1A	10V@0.1A	0.100	0.025	0.90	0.90	1.0	2.6	1:0.29:0.29:0.83:0.83 +/-2%
PoE26W5V-R	26	160	(2)x5.0V@2.6A	10.0V@0.1A	5.0V@0.1A	0.100	0.050	0.90	0.42	1.0	2.6	1:0.42:0.42:0.83:0.42 +/-2%

(1) Test parameters: 100 kHz, 0.100 Vrms, 0.0 Adc
(2) DCR limits maximum @ +20 °C

(3) Leakage Inductance 300 kHz, 0.01 Vrms, 0.0 Adc

Dimensions- mm



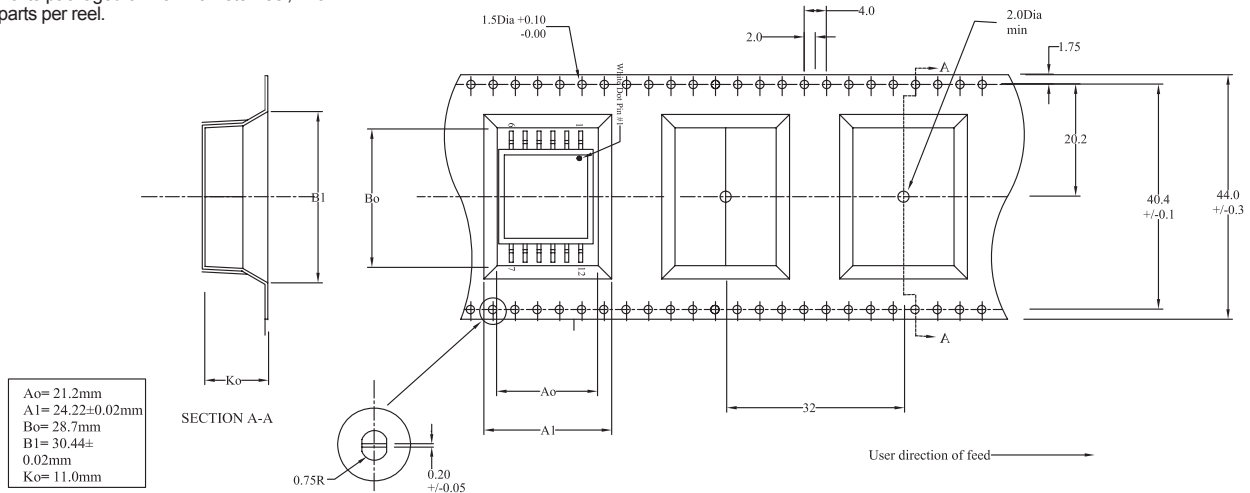
DIMENSIONS

	A mm max.	B mm ref.	C mm max.	D mm ref.	E mm max.	F mm ref.	G mm ref.	H mm ref.	I mm ref.	J mm	K mm	L mm ref.	M mm max.	N mm	O mm
	21.5	22.0	28.5	0.7	10.8	2.95	0.1	0.4	17.25	2.25	3.15	23.2	29.5	3.0	0.75

- 1) Tolerances A - H are ± 0.25 mm unless specified otherwise.
- 2) Tolerances I - O are ± 0.10 mm unless specified otherwise
- 3) All soldering surfaces are coplanar to within ± 0.102 mm.
- 4) Do not rout traces or vias underneath the transformer

Packaging information- mm

Parts packaged on 13" Diameter reel, 115 parts per reel.



A0= 21.2mm
A1= 24.22±0.02mm
B0= 28.7mm
B1= 30.44±0.02mm
K0= 11.0mm

Solder Reflow Profile

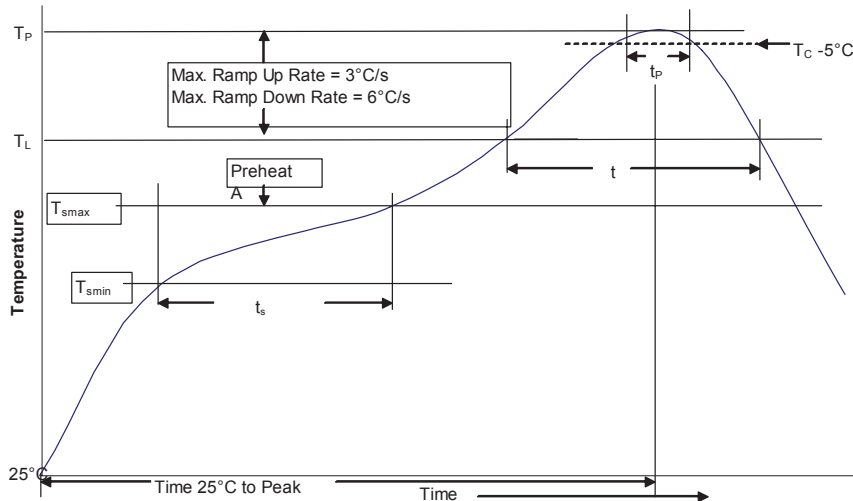


Table 1 - Standard SnPb Solder (T_C)

Package Thickness	Volume mm^3 <350	Volume mm^3 ≥ 350
<2.5mm	235°C	220°C
$\geq 2.5\text{mm}$	220°C	220°C

Table 2 - Lead (Pb) Free Solder (T_C)

Package Thickness	Volume mm^3 <350	Volume mm^3 350 - 2000	Volume mm^3 >2000
<1.6mm	260°C	260°C	260°C
1.6 – 2.5mm	260°C	250°C	245°C
>2.5mm	250°C	245°C	245°C

Reference JDEC J-STD-020

Profile Feature	Standard SnPb Solder	Lead (Pb) Free Solder
Preheat and Soak	• Temperature min. (T_{smin})	100°C
	• Temperature max. (T_{smax})	150°C
	• Time (T_{smin} to T_{smax}) (t_s)	60-120 Seconds
Average ramp up rate T_{smax} to T_P	3°C/ Second Max.	3°C/ Second Max.
Liquidous temperature (T_L)	183°C	217°C
Time at liquidous (t_L)	60-150 Seconds	60-150 Seconds
Peak package body temperature (T_P)*	Table 1	Table 2
Time (t_p)** within 5 °C of the specified classification temperature (T_C)	20 Seconds**	30 Seconds**
Average ramp-down rate (T_P to T_{smax})	6°C/ Second Max.	6°C/ Second Max.
Time 25°C to Peak Temperature	6 Minutes Max.	8 Minutes Max.

* Tolerance for peak profile temperature (T_P) is defined as a supplier minimum and a user maximum.

** Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

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