



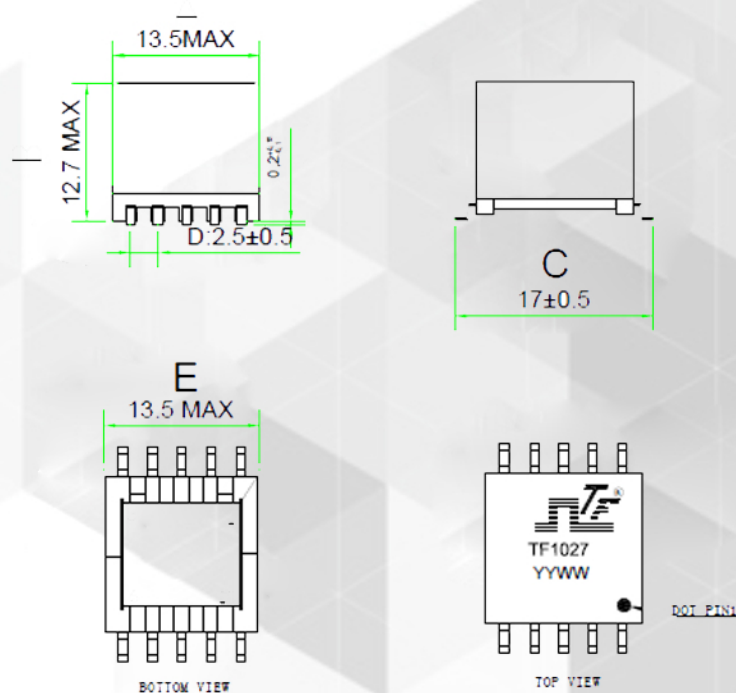
EP13 series

SMT flyback transformer for 13Watt PoE Application

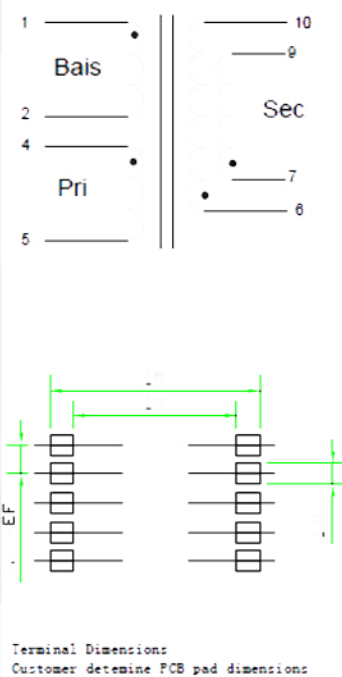
•Designed to meet3 PoE IEEE 802.3at-2009 standard									
•Operates at 250 kHz with 36–72 Volts input.									
•Isolation: 1500 Vrms, one minute pri to sec; 500 Vrms pri to aux									
•Ambient temperature –40°C to +125°C									
•Storage temperature Component: –40°C to +125°C.									
•Tape and reel packaging: –40°C to +80°C									
•Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles									
Model number	Power(W)	Inductance at 0 A ² ±10%(uH)	DCR max(Ohms)			Leakage inductance max(uH)	Turns ration		Output
			Pri	Bias	Sec		pri:sec	pri:bias	
TF1027	13	127	0.255	0.310	0.024	1.25	1:0.166	1:0.50	3.3V,4.0A



Mechanicals



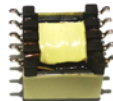
Schomatic



EP13 series

SMT flyback transformer for 6Watt and 13Watt PoE Application

- Designed to meet3 PoE IEEE 802.3at-2009 standard
- Operates at 250 kHz with 36–72 Volts input.
- Isolation: 1500 Vrms, one minute pri to sec; 500 Vrms pri to aux
- Ambient temperature –40°C to +125°C
- Storage temperature Component: –40°C to +125°C.
- Tape and reel packaging: –40°C to +80°C

Specification and Dimension

Electrical characteristic:

	Item	Test Pin	Specifications	Short Pins	Testing Codition	Instruments
1	Inductance	3-4	127uH ±10%		200KHz/0.1V/SER	WK-3260B
2	Leakage Inductance	3-4	0.65uH MAX	1-2-7-8-9-10	250KHz/0.1V	WK-3260B
3	Turn Ratio	3-4:2-1	1:0.5±3%		20KHz/1V	WK-3260B
		3-4:7,8-9,10	1:0.5±3%	7-8,9-10		
4	HI-POT	Pri-Sec	1500VAC/50Hz	7-8,9-10	1Seconds/5mA	Zentech 9052
5	D.C. Resistance	3-4	300mΩ MAX		AT25° C	HK-502BC
		2-1	350mΩ MAX			
		7,8-9,10	65mΩ MAX			
Model NO.		TF0501		Model Name		Poe TRANSFORMER
Part NO.		TF0501		SIZE		EP-13 5+5 SMD Total 10PIN

