

SMT PoE Transformers ~ EP13XFS-LF SERIES

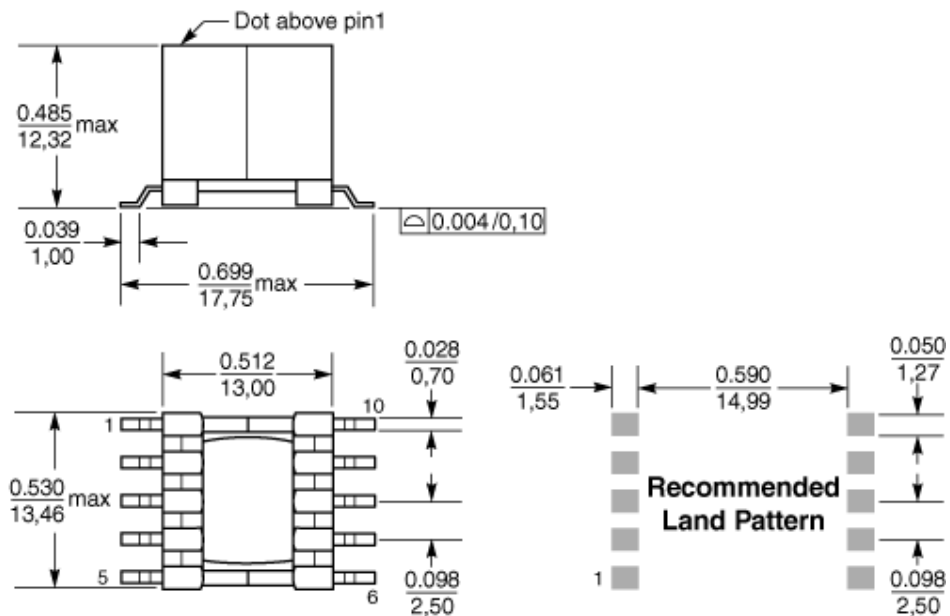


RoHS Compliant

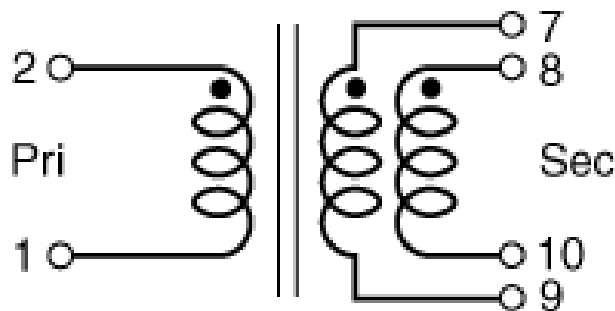
PART NUMBERING SYSTEM



SHAPES AND DIMENSIONS



SCHEMATIC



EP13XFS-2924-LF
EP13XFS-2925-LF
EP13XFS-2805-LF

Secondary windings to be connected in parallel on the PC board

SMT PoE Transformers ~ EP13XFS-LF SERIE



FEATURES

- Designed for **15 Watt, IEEE 802.3af-compliant PoE applications**
- **36 – 72 V input.** Versions for **12 V, 5 V** and **3.3 V output**
- **200 kHz** operating frequency
- **RoHS-compliant.** 260°C compatible. Tin-silver over tin over nickel over phos bronze terminations.

ELECTRICAL CHARACTERISTICS :

PART NUMBER	Inductance (uH)@ 0A	DCR(ohm) MAX		Leakage L(uH) Max.	Turns ratio		Out Put	
		Pri	Sec		Pri	Sec	Pri	Sec
EP13XFS-2924-LF	40±10%	0.1	0.025	0.666	13:04	3.3V ; 4.5A		
EP13XFS-2925-LF	40±10%	0.108	0.04	0.621	05:02	5.0V ; 3.0A		
EP13XFS-2805-LF	40±10%	0.1	0.155	0.566	01:01	12V ; 1.25A		
EP13XFS-1136-LF	127±10%	0.1	0.025	7.5	01:00.1	3.3V ; 4.5A		
EP13XFS-1267-LF	155.5±10%	0.108	0.04	5	01:00.2	5.0V ; 3.0A		
EP13XFS-1269-LF	77.4±10%	0.1	0.155	5	01:00.2	12V ; 1.25A		
EP13XFS-1137-LF	127±10%	0.1	0.025	7.5	01:00.1	3.3V ; 4.5A		
EP13XFS-1260-LF	77.4±10%	0.1	0.025	0.8	01:00.3	3.3V ; 4.5A		
EP13XFS-1138-LF	127±10%	0.108	0.04	7.5	01:00.3	5.0V ; 3.0A		
EP13XFS-1276-LF	77.4±10%	0.1	0.155	5	01:00.7	12V ; 1.25A		
EP13XFS-1528-LF	28.9±10%	0.1	0.025	1	01:00.5	3.3V ; 4.5A		

- 1) Inductance measured at 200 kHz, 0.2 Vrms, 0 Adc.
- 2) DCR for the secondary is per winding.
- 3) Leakage inductance is measured across the primary with all other windings shorted.
- 4) Turns ratio is with the secondary windings connected in parallel.
- 5) Output is with the secondary windings connected in parallel.
- 6) Ambient temperature range: -40°C to +85°C
- 7) Storage temperature range: Component: -40°C to +85°C
- 8) Resistance to soldering heat: Three reflows at >217°C for 90 seconds (+260°C ±5°C for 20 – 40 sec allowing parts to cool to room temperature between.