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SMT PoE Transformers ~ EP7XFS-LF SERIES

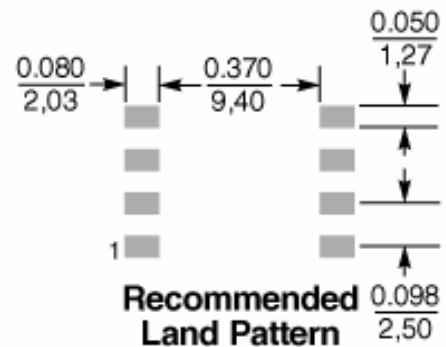
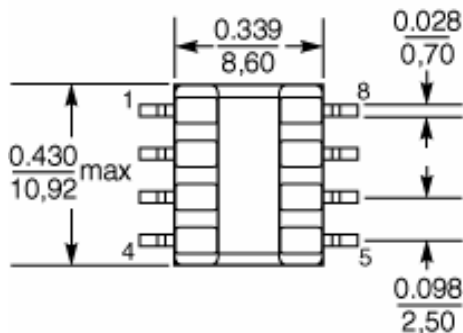
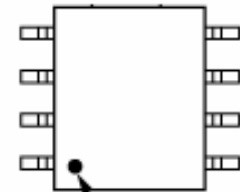
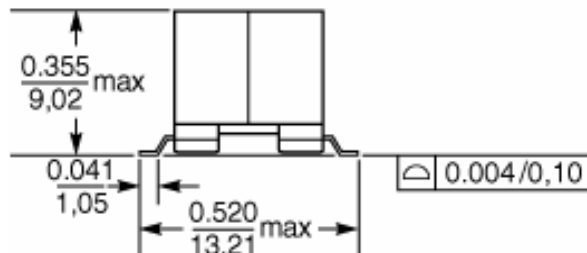


RoHS Compliant

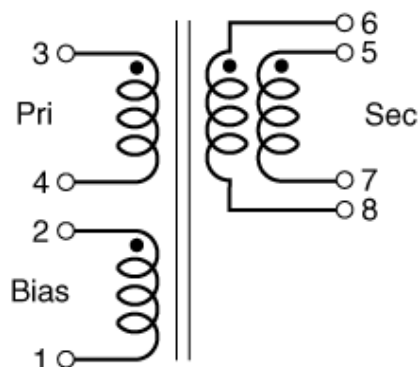
PART NUMBERING SYSTEM

EP — **7XFS** — **12L** — **LF**
TYPE DIMENSIONS MODEL LEAD FREE

SHAPES AND DIMENSIONS



SCHEMATIC



Secondary windings to be connected in parallel on the PC board



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SMT PoE Transformers ~ EP7XFS-LF SERIES

FEATURES

- Developed for **Powered Devices** in **IEEE 802.3af** compliant **PoE** applications
- **36 – 72 V input.** Versions with versions for **3 Watt output**
- Designed to operate in continuous mode
- Bias winding output: **12 V, 20 mA**
- **250 kHz switching frequency**
- **1500 Vrms** winding to winding **isolation**
- **RoHS-compliant.** 260°C compatible. Tin-silver over tin over nickel over phos bronze terminations.

ELECTRICAL CHARACTERISTICS :

PART NUMBER	L @ 0A ±10% uH	L @ Ipk ±10% uH	DCR(ohm) MAX			Leakage L(uH) Max.	Turns ratio		Ipk (A)	Out Put Pri : Sec
			Pri	Bias	Sec		Pri : Sec	Pri : Bias		
EP7XFS-33L-LF	310	279	1.02	2.01	0.066	4.75	1 : 0.190	1 : 0.070	0.30	3.3V ; 0.91A
EP7XFS-50L-LF	310	279	1.02	2.01	0.118	4.50	1 : 0.280	1 : 0.070	0.30	5.0V ; 0.6A
EP7XFS-12L-LF	310	279	1.04	2.01	0.700	4.25	1 : 0.700	1 : 0.070	0.30	12V ; 0.25A

- 1) Inductance is for the primary, measured at 250 kHz, 0.1 Vrms, 0 Adc
- 2) DCR for the secondary is per winding
- 3) Leakage inductance is measured between pins 3 and 4 with all other pins shorted
- 4) Turns ratio is with the secondary windings connected in parallel
- 5) Output of the secondary is with the windings connected in parallel. Bias winding output is 12 V, 20 mA
- 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 seconds) allowing parts to cool to room temperature between.