



SMT PoE Transformers ~ EP13XFS Series

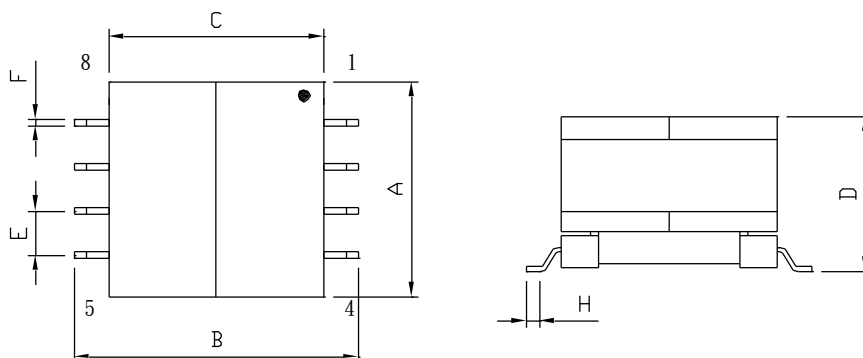


PART NUMBERING SYSTEM

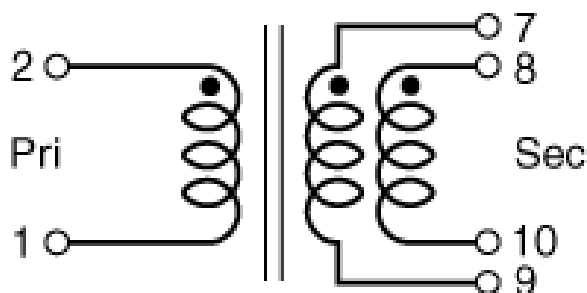
<u>EP</u>	<u>13XFS</u>	—	<u>2925</u>	—	<u>LF</u>
TYPE	DIMENSIONS		MODEL		LEAD FREE

SHAPES AND DIMENSIONS

UNIT : mm



A=13.46Max. B=17.75Max. C=13.00 Ref. D=12.32 Ref. E=2.5 Ref. F=0.7 Ref. G=1.0 Ref.



Secondary windings to be connected in parallel on the PC board

SMT PoE Transformers ~ **EP13XFS Series**



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 Pri : Sec	Out Put Pri : Sec
		Pri	Sec			
EP13XFS-2924-LF	40±10%	0.100	0.025	0.666	13 : 4	3.3V ; 4.5A
EP13XFS-2925-LF	40±10%	0.108	0.040	0.621	5 : 2	5.0V ; 3.0A
EP13XFS-2805-LF	40±10%	0.100	0.155	0.566	1 : 1	12V ; 1.25A
EP13XFS-1136-LF	127±10%	0.100	0.025	7.50	1 : 0.083	3.3V ; 4.5A
EP13XFS-1267-LF	155.5±10%	0.108	0.040	5.00	1 : 0.167	5.0V ; 3.0A
EP13XFS-1269-LF	77.4±10%	0.100	0.155	5.00	1 : 0.182	12V ; 1.25A
EP13XFS-1137-LF	127±10%	0.100	0.025	7.50	1 : 0.125	3.3V ; 4.5A
EP13XFS-1260-LF	77.4±10%	0.100	0.025	0.80	1 : 0.273	3.3V ; 4.5A
EP13XFS-1138-LF	127±10%	0.108	0.040	7.50	1 : 0.292	5.0V ; 3.0A
EP13XFS-1276-LF	77.4±10%	0.100	0.155	5.00	1 : 0.682	12V ; 1.25A
EP13XFS-1528-LF	28.9±10%	0.100	0.025	1.00	1 : 0.470	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 seconds), allowing parts to cool to room temperature between.