**Coilmaster Electronics Co., Ltd.** info@coilmaster.com.tw

TEL : +886-3-422-8279 FAX : +886-3-422-8734 www.coilmaster.com.tw

9F-3 No.398, Huan Bei Road, Chung Li City , Taoyuan 320, Taiwan .

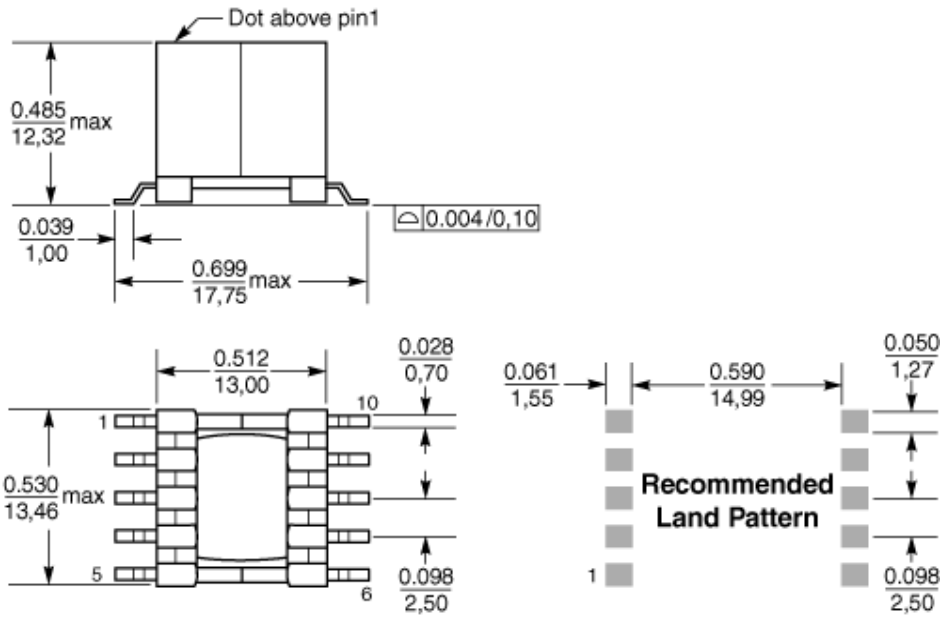
# SMT PoE Transformers ~ EP13XFS-LF SERIES

RoHS Compliant

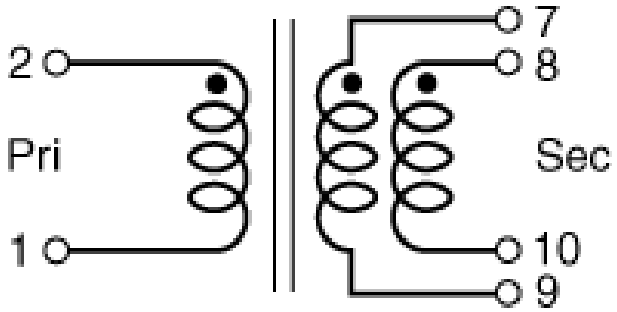
## PART NUMBERING SYSTEM

| EP | — | 13XFS | — | 2925 | — | LF |
|---|---|---|---|---|---|---|
| TYPE | | DIMENSIONS | | MODEL | | LEAD FREE |

## SHAPES AND DIMENSIONS




## SCHEMATIC




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

**Secondary windings to be connected in parallel on the PC board**

**Coilmaster Electronics Co., Ltd.** info@coilmaster.com.tw

TEL : +886-3-422-8279 FAX : +886-3-422-8734 www.coilmaster.com.tw

9F-3 No.398, Huan Bei Road, Chung Li City , Taoyuan 320, Taiwan .

# SMT PoE Transformers ~ EP13XFS-LF SERIE

RoHS Compliant

## 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.