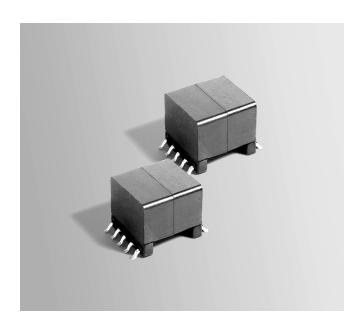


Flyback Transformers For National Semiconductor LM5070 PoE Interface – 13 Watt



- Flyback transformers for 13 W PoE applications
- Designed to operate in continuous mode at 250 kHz with an input of 36-72 Vdc
- 1500 Vrms isolation from primary and bias to secondary

Core material Ferrite

Terminations RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 6.15 g

Ambient temperature -40°C to +85°C

Storage temperature Component: -40°C to +85°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

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 175 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

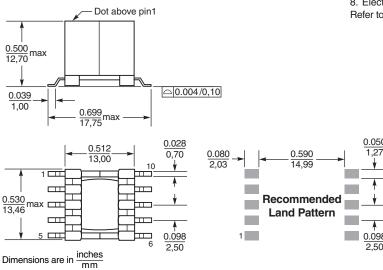
Part	Inductance at 0 A ²	Inductance at Ipk ³	DCR max (Ohms)4			Leakage inductance	Turns	s ratio ⁶	Ipk ³	
number ¹	±10% (μΗ)	min (μH)	pri	bias	sec	max (µH)⁵	pri:sec	pri : bias	(A)	Output ⁷
C1495-AL_	127	114.3	0.255	0.310	0.024	1.25	1:0.166	1:0.50	1.0	3.3 V, 4.0 A
C1585-AL_	127	114.3	0.222	0.348	0.039	0.950	1:0.25	1:0.50	1.0	5.0 V, 2.6 A
C1586-AL_	127	114.3	0.199	0.308	0.129	0.650	1:0.50	1:0.50	1.0	12 V, 1.08 A

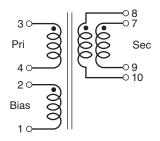
1. When ordering, please specify packaging code:

C1586-ALD

- Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).
 - **B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.
- 2. Inductance is for the primary, measured at 250 kHz, 0.2 Vrms, 0 Adc.
- 3. Ipk is peak primary current drawn at minimum input voltage.
- 4. DCR for the secondary is per winding.
- 5. Leakage inductance measured between pins 3 and 4 with all other pins shorted.
- 6. Turns ratio is with the secondary windings connected in parallel.
- 7. Output of the secondary is with the windings connected in parallel. Bias winding output is 12 V, 20 mA.
- 8. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.





Secondary windings to be connected in parallel on the PC board



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