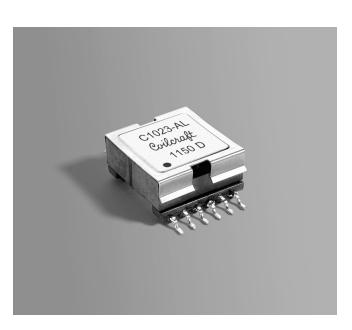


Poe Transformer For National Semiconductor LM5070 Poe Interface



Part	L at 0 A ²	L at Ipk ³	DCR max (Ohms) ⁴		
number ¹	±10% (μΗ)	±10% (µH)	pri	aux	sec
C1023-AL_	110	99.0	0.139	0.656	0.016

1. When ordering, please specify a packaging code:

C1023-ALD

- Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (175 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 10 kHz, 0.1 Vrms, 0 Adc.
- 3. Ipk is the peak current drawn at minimum input voltage.

- Developed for the NSC LM5070 PD Interface in 13W applications.
- · Operates at frequencies up to 1 MHz
- Input: 36–72 V; Output: 3.3V, 4.5 A, with secondary windings connected in parallel
- Isolation:1500 Vrms from the primary and auxiliary windings to the 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 12.4 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)

Mean Time Between Failures (MTBF) / Failures in Time (FIT) 26,315,789 hours / 38 per billion hours, Calculated per Telcordia SR-322 Packaging 175 per 13" reel Plastic tape: 44 mm wide, 0.4 mm thick, 32 mm pocket spacing, 11.9 mm pocket depth PCB washing Tested to MIL-STD-202 Method 215 plus an additional

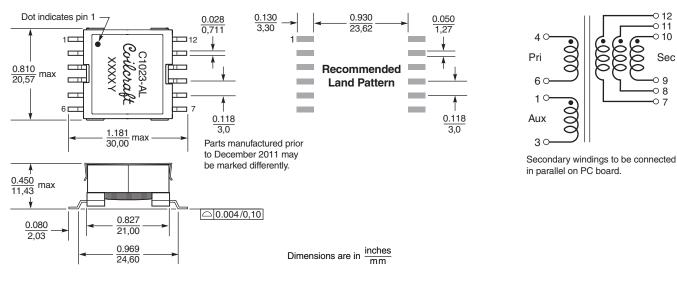
aqueous wash. See Doc787_PCB_Washing.pdf.

max (Ohms) ⁴		Leakage	Turns ratio ⁶		Capacitance ⁷	Ipk ³	Isolation ⁸	
aux	sec	L (µH)ĭ₅	pri : sec	pri : aux	(pF)	(A)	(Vrms)	
0.656	0.016	1.40	1:0.19	1:0.69	70	1.5	1500	

- 4. DCR for the secondary is per winding.
- 5. Leakage inductance is for the primary winding with all other pins shorted.
- 6. Turns ratio is with the secondary windings connected in parallel.
- 7. Capacitance measured between pins 3 and 4 with other pins shorted.
- 8. Isolation is measured from the primary and aux to the secondary.

9. Electrical specifications at 25°C.

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





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Sec

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08

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