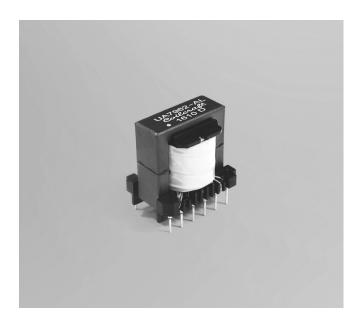


81W PoE Transformer For TI Industrial POE Isolated Flyback Reference Design



- Developed for Texas Instruments 81W Industrial POE Isolated Flyback reference design, PMP20058
- Operates with input voltage of 8 18 V
- 54 V, 1.5 A isolated output
- 1500 Vrms, one minute isolation (hipot) from primary and aux to secondary.

Core material Ferrite

Terminations ROHS tin-silver over tin over copper plated steel Weight 49.7 g

Ambient temperature -40°C to +105°C

Maximum part temperature +145°C

Storage temperature Component: -40°C to +105°C.

Tray packaging: -40°C to +80°C

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

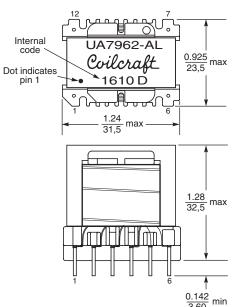
Packaging 120 per tray

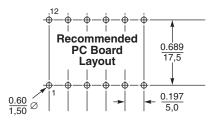
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

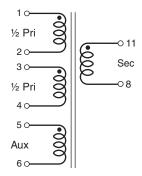
Part number	Inductance at 0 A ¹ ±5% (µH)	DCR max (mOhms) ²			Leakage inductance ³	Turns ratios ⁴		Ipk ⁵		Isolation ⁷
		pri	sec	aux	max (µH)	pri:sec	pri:aux	(A)	Output ⁶	(Vrms)
UA7962-AL	10	5	38	51	0.085	1:2	1:0.5	15.5	54 V, 1.5 A	1500

- 1. Inductance is for the primary, measured at 300 kHz, 0.3 Vrms.
- 2. DCR for the primary is with the two windings connected in series (pin 2 and 3 to be connected).
- Leakage inductance is for the primary windings with the secondary windings shorted.
- 4. Turns ratios are with the primary windings connected in series (pin 2 and 3 to be connected).
- 5 Peak primary current drawn at minimum input voltage.
- 6. Aux winding output is 20 mA.
- 7. Isolation (hipot) is measured from primary to secondary for one minute.
- 8. Electrical specifications at 25°C.

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







Pins 2 and 3 to be connected on the PC board



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