

SMT Planar Transformer For TI UCC2897 12 V/264 W Active Clamp Forward



- Developed for Texas Instruments UCC2897 Active Clamp Forward (PMP7376 reference design)
- Designed for 52 60 Vdc input; 12 V, 22 A output
- High efficiency; excellent DCR; very low leakage inductance;
- 1500 Vrms, one minute primary to secondary isolation (hipot)

Core material Ferrite

Terminations Matte tin over nickel over brass.

Weight 22.0 g

Ambient temperature -40°C to +125°C

Maximum part temperature +155°C (ambient + temp rise)

Storage temperature Component: -40°C to +155°C.

Tray 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 $<30^{\circ}$ C / 85% relative humidity)

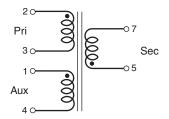
Packaging 36 per tray

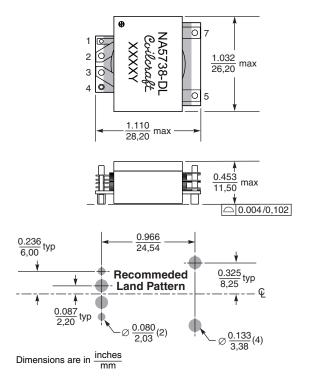
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number	Turns			Primary inductance ¹	Leakage inductance ²	DCR max (mOhms)			Volt-time product typ ³	
	Pri	Sec	Aux	±20% (μH)	max (µH)	Pri	Sec	Aux	(V-µsec)	Output
NA5738-DI	5	2	2	100	0.18	4.8	17	18	94.5	12 V 22 A

- 1. Inductance is for the primary, measured on Agilent/HP 4284A at 200 kHz. 0.5 Vrms. 0 Adc.
- Leakage Inductance is for the primary, measured at 100 kHz, 0.1 Vrms, 0 Adc with secondary pins shorted.
- 3. Volt-time product is for the primary, between pin 2 and 3.
- 4. Output of the aux winding is 12 V.
- 5. Electrical specifications at 25°C.

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







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