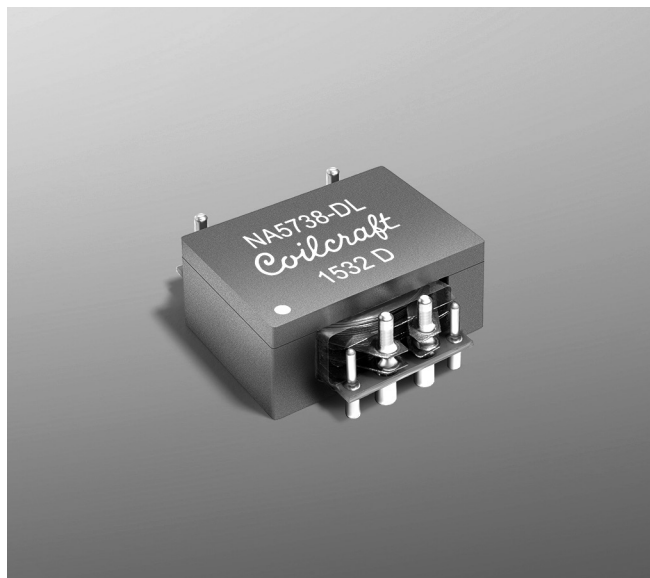




SMT Planar Transformer

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°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 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 ±20% (µH)	Leakage inductance ² max (µH)	DCR max (mOhms)			Volt-time product typ ³ (V-µsec)	Output
	Pri	Sec	Aux			Pri	Sec	Aux		
NA5738-DL	5	2	2	100	0.18	4.8	1.7	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.

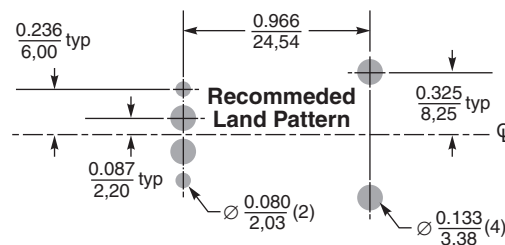
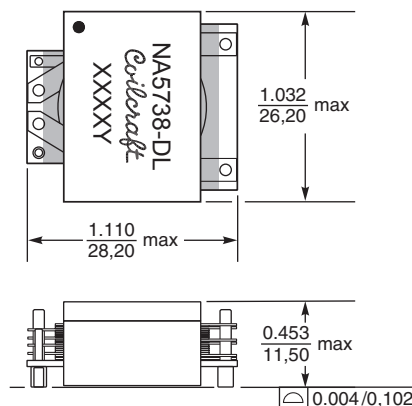
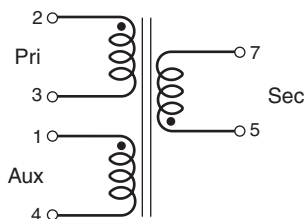
2. Leakage Inductance is for the primary, measured at 100 kHz, 0.1 Vrms, 0 Adc with secondary pins shorted.

3. Volt-time product is based on primary turns and 3000 gauss.

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.



Dimensions are in $\frac{\text{inches}}{\text{mm}}$



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