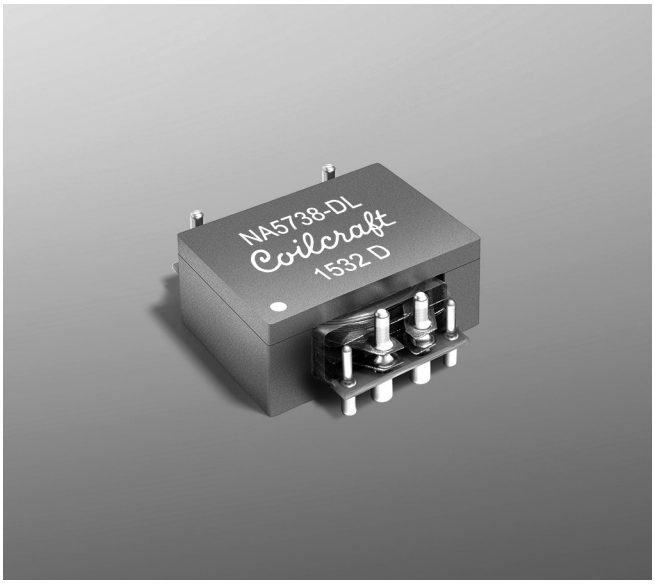
SMT Planar Transformer

For TI UCC2897 12 V/264 W Active Clamp Forward



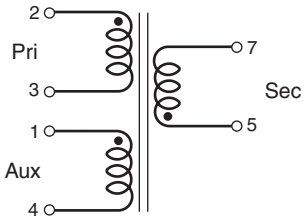
- Developed for Texas Instruments UCC2897 Active Clamp Forward (PMP7376 reference design)
- Designed for 52 – 60 Vdc input; 12 V, 22 A output
- High efficiency; excellent DCR; very low leakage inductance;
- 1500 Vrms, one minute primary to secondary isolation (hipot)

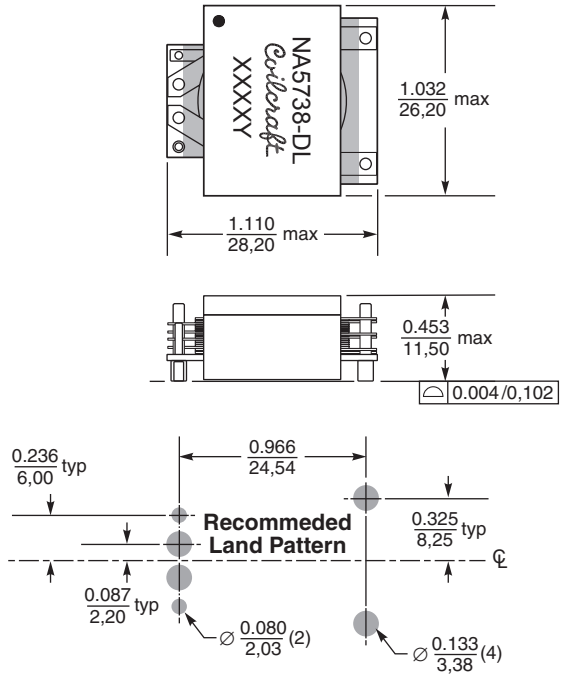
Core material Ferrite
Terminations Matte tin over nickel over brass.
Weight 22.0 g
Ambient temperature –40°C to +125°C
Maximum part temperature +155°C (ambient + temp rise)
Storage temperature Component: –40°C to +155°C. Tray packaging: –40°C to +80°C
Resistance to soldering heat Max three 40 second 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 inches / mm

www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

© Coilcraft Inc. 2016
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.