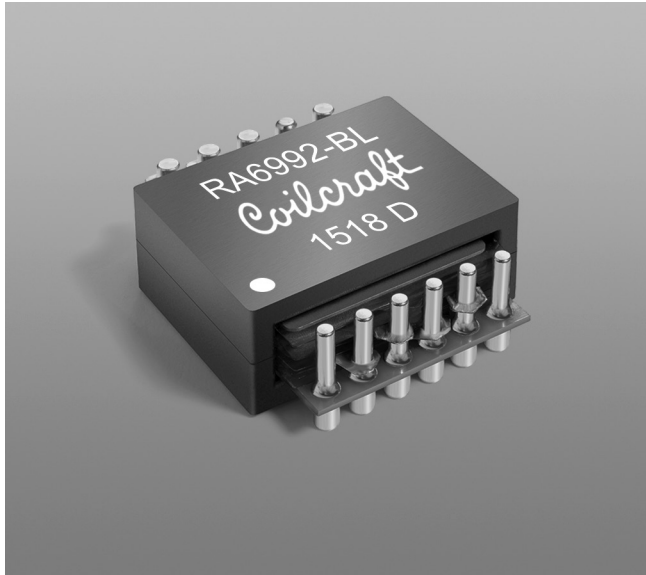




# SMT Planar Transformer

For TI UCC2897  
(PMP9656  
Reference Design)



- Developed for Texas Instruments UCC2897 Active Clamp Forward (PMP9656 reference design)
- Rated for 250 Watts
- Designed to operate at 200 kHz with 48 – 60 Vdc input.
- High efficiency; excellent DCR; very low leakage inductance; 1500 Vrms, one minute primary to secondary isolation.
- Provides 0.009" (0.229 mm) clearance above the seating plane

**Core material** Ferrite

**Terminations** Matte tin over nickel over brass.

**Weight** 26.5 g

**Ambient temperature** -40°C to +85°C

**Maximum part temperature** +125°C (ambient + temp rise)

**Storage temperature** Component: -40°C to +125°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)

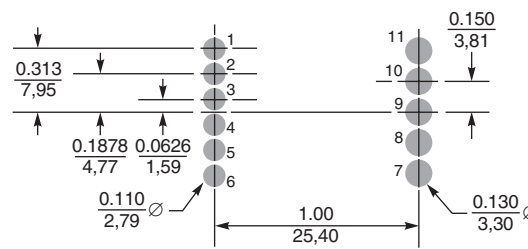
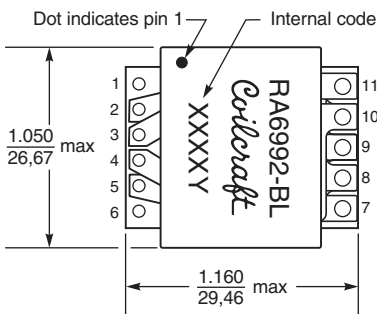
**Packaging** 25 per tray

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCB\\_Washing.pdf](#).

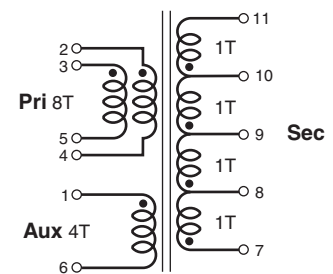
| Part number | Turns |     |     | Primary inductance <sup>1</sup><br>±20% (µH) | Leakage inductance <sup>2</sup><br>max (µH) | DCR max (mOhms) <sup>3</sup> |           |     | Volt-time product typ <sup>4</sup><br>(Vµsec) | Output     |
|-------------|-------|-----|-----|--|---|------------------------------|-----------|-----|---|------------|
|             | Pri   | Sec | Aux |  |   | Primary                      | Secondary | Aux |   |            |
| RA6992-BL   | 8     | 4   | 4   | 50   | 0.25  | 6.9                          | 4.2       | 82  | 206   | 12 V, 21 A |

1. Inductance measured on an Agilent/HP 4284 at 200 kHz, 0.5 Vrms, 0 Adc with windings connected in parallel.
2. Leakage inductance is for the primary with windings connected in parallel, measured at 200 kHz, 0.5 Vrms, 0 Adc with all secondary pins shorted.
3. DCR for primary is measured with the windings connected in parallel. DCR for secondary is measured between pins 7 and 11.
4. Volt-time product is based on primary windings connected in parallel.
5. Electrical specifications at 25°C.

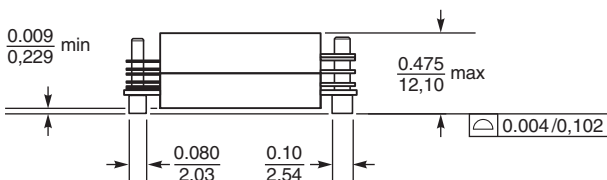
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



**Recommended Land Pattern**



Primary windings to be connected in parallel on the PC board



Dimensions are in inches/mm



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