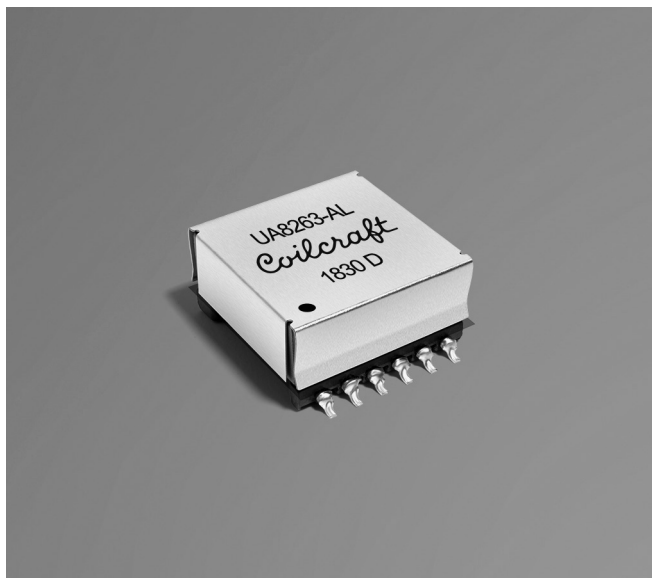


Flyback Transformer

For TI 24 Watt Power Supply
Reference Design TIDA-01344



- Designed for Texas Instruments 24 W, 48 V automotive battery front-end power supply Reference Design TIDA-01344.
- Operates at 333 kHz with 10–80 Volts input.
- 3000 Vrms, one minute isolation (hipot) from pri and aux to sec; 1500 Vrms all pins to the core
- AEC-Q200 Grade 1 qualified (–40°C to +125°C ambient)

Core material Ferrite

Terminations RoHS tin-silver-copper over tin over nickel over phos bronze.

Weight 27.5 g

Ambient temperature –40°C to +125°C

Maximum part temperature +165°C (ambient + temp rise).

Storage temperature Component: –40°C to +165°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

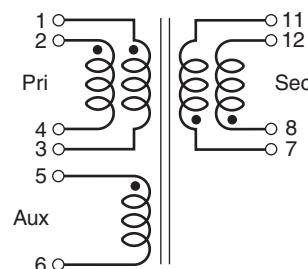
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Packaging 24 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 0A ¹ ±10% (µH)	Inductance at I _{pk} ² min (µH)	DCR max (Ohms)			Leakage inductance ³ max (µH)	Turns ratio		I _{pk} ² (A)	Output ⁴
			pri	sec	aux		pri : sec	pri : aux		
UA8263-AL	35.0	31.5	0.010	0.009	0.090	0.170	1:0.5	1:0.5	3.6	12 V, 2.0 A

1. Inductance is for the primary, measured at 333.33 kHz, 0.1 Vrms, 0 Adc.
 2. Peak primary current drawn at minimum input voltage.
 3. Leakage inductance is for the primary winding with all other windings shorted.
 4. Output of the auxiliary winding is 13 V, 50 mA.
 5. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



These pins to be connected on the PC board: 1 to 2, 3 to 4, 7 to 8 and 11 to 12.



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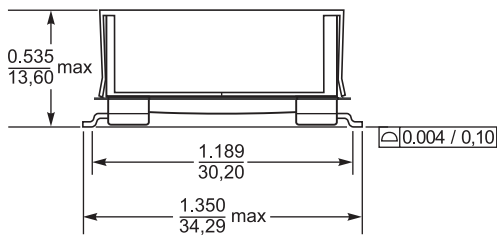
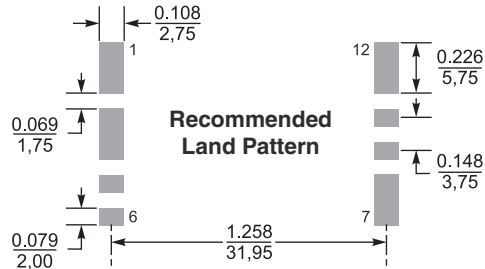
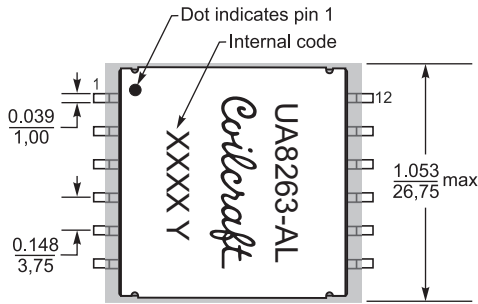
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Flyback Transformer for Texas Instruments TIDA-01344



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



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