

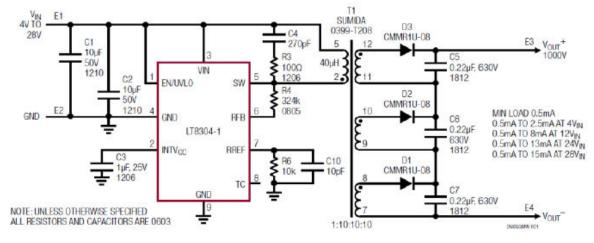
Flyback Transformer for LT8304-1 CEFD2010 (0399-T208)

Descriptions

- Transformer associates LT8304-1 reference design which is an isolated no-opto flyback converter specially optimized for high output voltage applications - providing outputs up to 1000V
- Environmental RoHS compliant without exemption, REACH compliance
- SMD type, size 21 x 21 x 11.8 mm max.
- Terminal platings: Matte Tin and thickness ≥ 8µm
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C /85% relative humidity)
- Operating temprature range: -40°C to 125°C (ambient + Temp rise)
- Storage temperature range: -40°C to 125°C
- Maximum heat endurance temperature is 260°C Recommended reflow condition as max temperature 245°C withstand no longer than 40 seconds

Applications

- Power Supply in Industrial, Automotive, Medical, and Telcom applications with reliable, easy-to-use, high voltage and isolated, and provide excellent regulation over load, line and temperature, output up to 1000V
- Refer to LT8304-1 datasheet and Design Note 1047. Right schematics is a complete 1000V/15mA Isolated Flyback converter from 4V~28V Input



Above reference a Complete 1000V/15mA Isolated Flyback Converter from a 4V~28V Inpuut

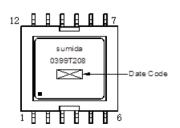
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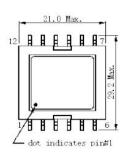


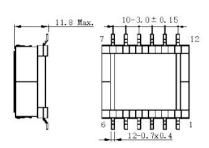
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Stamp and Top View



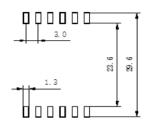
Dimension - [mm]



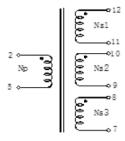


- * Terminals should be measured the lenth of the soldered point.
- * Dimensions without Tolerance are references.

Land Pattern - [mm]



Schematics



Electrical Characteristics (at 25°C unless otherwise specified)

Item	PIN	Specification	Measuring Conditions
Inductance	(5-2)	40 μH ±10%	100kHz / 0.1Vrms
Leakage Inductance	(5-2)	2.4 μΗ Max. (1.2 μΗ Typ)	100kHz, 0.1 Vrms, Tie 7+8+9+10+11+2
Turns Ratio	Np : Ns1 : Ns2 : Ns3	1:10:10:10	
Hi-Pot	Np-Ns1, Ns2, Ns3	1500 Vrms	1 SEC. 1.0 mA, 50 / 60Hz
	Ns1-Ns2, Ns3		
	Ns2-Ns3		
	(Coil - Core)	500 Vrns	
DCR	(5-2)	100 mΩ Max. (80 mΩ Typ)	
	(12-11)	12.65 Ω Max. (11 Ω Typ)	
	(10-9)	12.65 Ω Max. (11 Ω Typ)	
	(9-7)	12.65 Ω Max. (11 Ω Typ)	



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