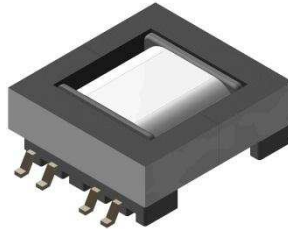


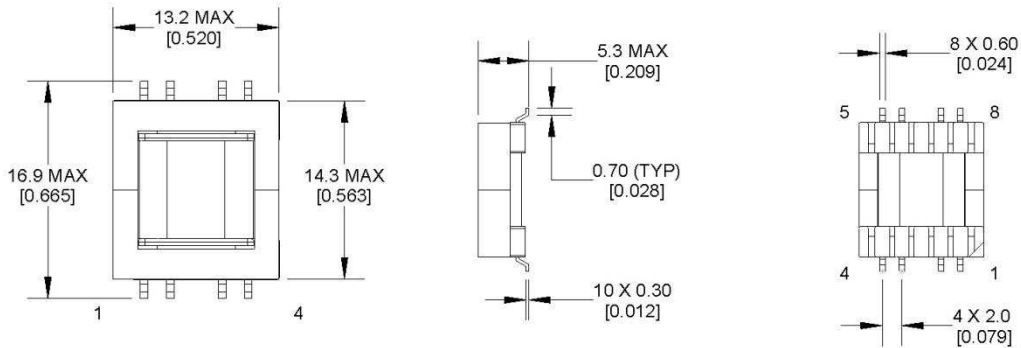
Boundary Mode Flyback Transformer for 100V Isolated Flyback Controller of Linear Tech LT3748 Solution



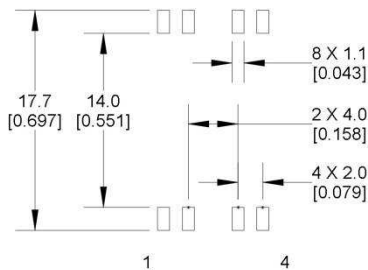
Description

- CEEH1305 Series Transformers.
- Standard CEEH core construction.
- L × W × H: 16.9 × 13.2 × 5.3 Max.
- Suited for a wide variety of industrial, automotive, medical, telecom, datacom applications, where regulated isolated outputs are required.

Dimensions – mm [inch]



Recommended Pad Layout - mm [inch]



Electrical Characteristics

Part Number	Electrical Parameters			Turns Ratio (np/ns)			Inductance (uH)	Leakage Inductance Max. (uH)	DCR Max. (Ω)			
	Vin (Primary)	Vin (Bias)	Vout (Sec)	Pri:Sec	Pri:Aux	Pri:Aux	Pri.	Pri.	Pri.	Sec.	Aux.	Aux.
10396-T022	(3-4) 5~100V		(5-8) 15V, 3.0A	(3-4):(5-8) 1.0:0.50	(3-4):(2-1) 1.0:0.17		(3-4) 300	(3-4) (Tie 5-8) 2.0	(3-4) 1.70	(5-8) 0.830		
10396-T024	(3-4) 5~100V		(5-8) 15V, 3.0A	(3-4):(5-8) 1.0:0.25	(3-4):(2-1) 1.0:0.30		(3-4) 300	(3-4) (Tie 5-8) 2.0	(3-4) 1.70	(5-8) 0.220		
10396-T026	(3-4) 5~100V		(5-8) 15V, 3.0A	(3-4):(5-8) 1.0:0.17	(3-4):(2-1) 1.0:0.20		(3-4) 300	(3-4) (Tie 5-8) 2.5	(3-4) 1.70	(5-8) 0.100		
10396-T028	(3-4) 5~100V		(5-6) 15V, 3.0A	(3-4):(5-6) 1.0:0.50	(3-4):(7-8) 1.0:0.50		(3-4) 300	(3-4) (Tie 5+6+7+8) 2.5	(3-4) 1.80	(5-6) 0.460		

※1. Operating and Storage temperature range unless otherwise noted: -40°C to +125°C

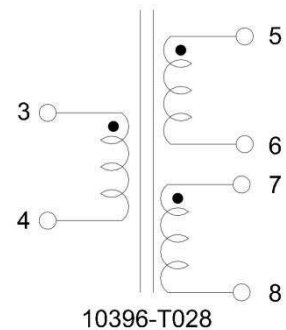
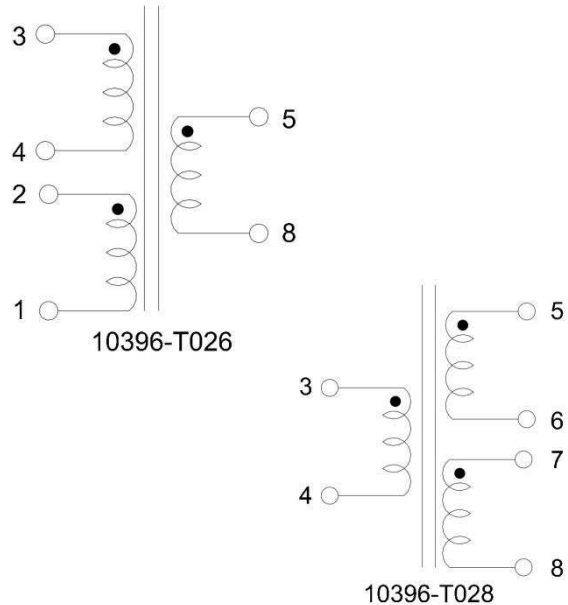
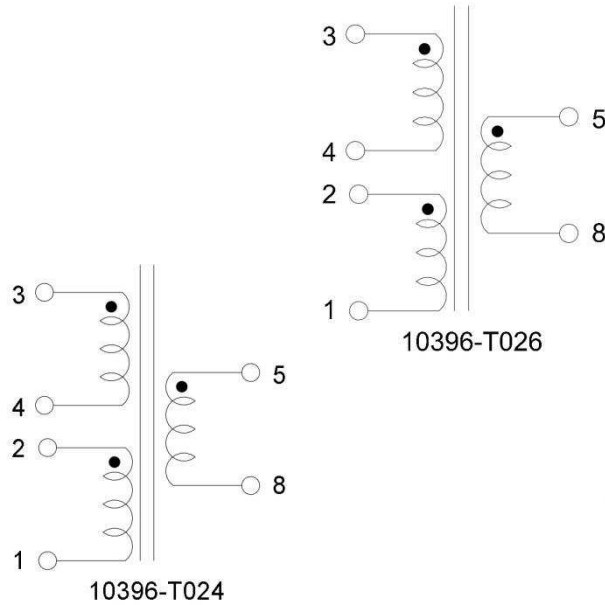
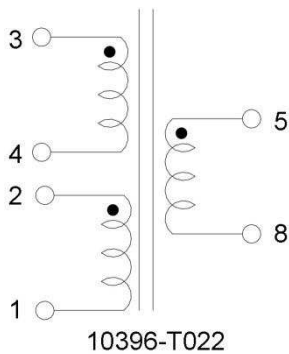
※2. Primary to secondary isolation rating is 1500 Vrms unless otherwise noted.

※3. Maximum switching frequency at full load: 155kHz, Minimum switching frequency at full load: 55kHz

Boundary Mode Flyback Transformer for 100V Isolated Flyback Controller of Linear Tech LT3748 Solution



Schematics



※1. • Dots indicate polarity.

I.C. References

Linear Technology Solutions	Sumida Part No.
DC1745A Demo Board Powering LT3748	10396-T022
DC1745A Demo Board Powering LT3748	10396-T024
DC1745A Demo Board Powering LT3748	10396-T026
DC1745A Demo Board Powering LT3748	10396-T028

※1. Please contact your regional sales office for additional information/details.

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