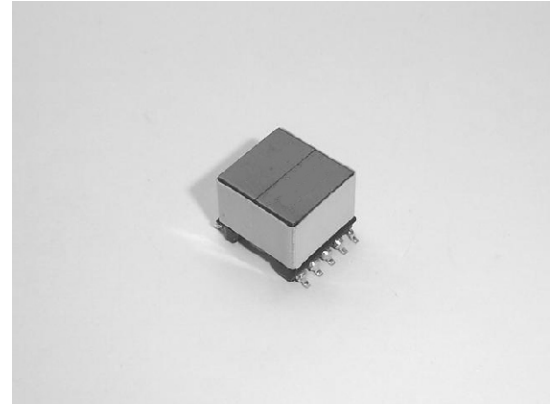




-  Forward Converter transformers designed for PoE Plus (IEEE802.3at) powered devices with up to 30 Watts
-  Designed for 250kHz switching frequency with input of 33 - 57V
-  Low Leakage Inductance
-  Hipot voltage: 1500Vrms
-  Operating temperature -40 C to +85 C.
-  RoHS compliant version is available
-  Custom design is also available



ELECTRICAL SPECIFICATION @ 25°C

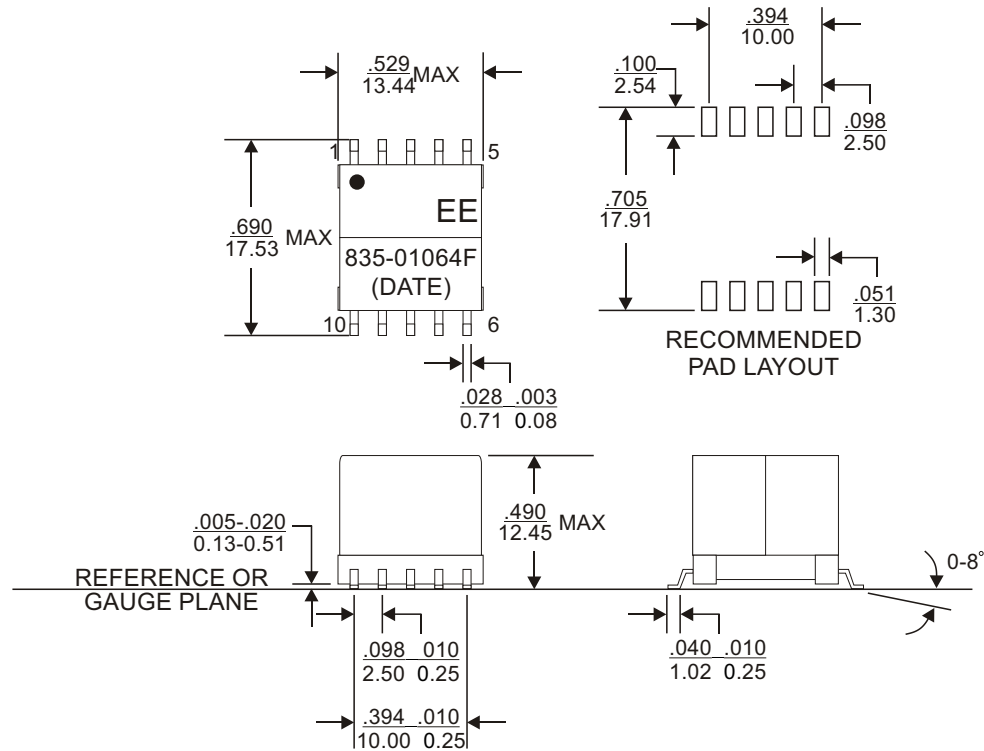
RoHS Part Number	Turns Ratio		Inductance, Pri at 0A (uH 10%)	Inductance, Pri at Ipk (uH Min)	Leakage Inductance (uH Max)	DCR (mOhm Max)			Ipk (A)	Secondary Output
	Pri : Sec	Pri : Aux				Pri	Sec	Sec		
835-01064F / 835-01064FC	1.8 : 1	1.8 : 1	100	80	0.875	210	35	580	1.3	Vout=12V/2.5A

Notes:

1. Inductance is measured at 100kHz, 0.24Vrms, 0Adc.
2. Peak primary current, Ipk, is drawn at minimum input voltage.
3. DCR for the secondary is per winding.
4. Leakage Inductance measured between pins 1 and 2 with all other secondary pins shorted.
5. Turns ratio is with the secondary windings connected in parallel.
6. Output of the secondary is with the windings connected in parallel.
7. Operating temperature range: -40 C to +85 C. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
8. 835-01064F and 835-01064FC have the same design but 835-01064FC is specified in Texas Instruments reference designs.



MECHANICAL DIMENSIONS

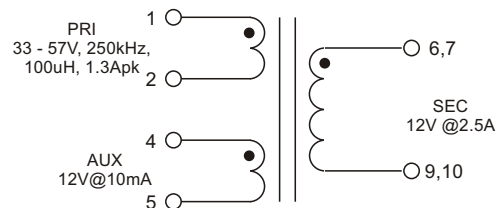


Notes:

8. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
9. Unless otherwise specified, all tolerances are $\frac{.010}{0.25}$.
10. Coplanarity: $\frac{.004}{0.10}$ max.

Weight (in gram)	: 6.6 typ.
Tape & Reel	: 160 / reel

SCHEMATICS



SCHEMATIC

FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER
1/F., Harbour View, No. 12 Science Park East Avenue,
Phase II, Hong Kong Science Park, Shatin, N.T., HK
Tel: (852) 2954 3333
Fax: (852) 2954 3304
Email: eempl@eleceltek.com
Website: <http://www.eemagnetic.com>

Information herein is for reference only and subject to change without notice. It does not constitute any representation, warranty or commitment of the company in respect of the products in any aspect. All logos, brands and product names mentioned herein are trademarks or registered trademarks of their respective owners. The company does not assume any liability arising out of the application or use of any product or circuit described herein. Copyrights 2012, E & E Magnetic Products Limited.