






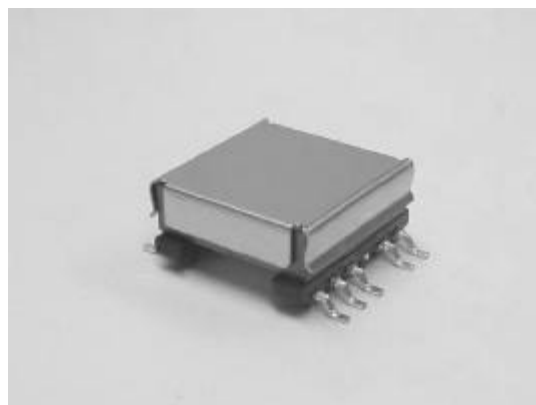


-  Flyback transformers designed for PoE (IEEE802.3af) powered devices with up to 6 Watts
-  Designed for 250kHz switching frequency with input of 36 - 72V
-  Low Leakage Inductance
-  Hipot voltage: 1500Vrms
-  Operating temperature -40°C to +125°C.
-  RoHS compliant version is available
-  Custom design is also available



ELECTRICAL SPECIFICATION @ 25°C

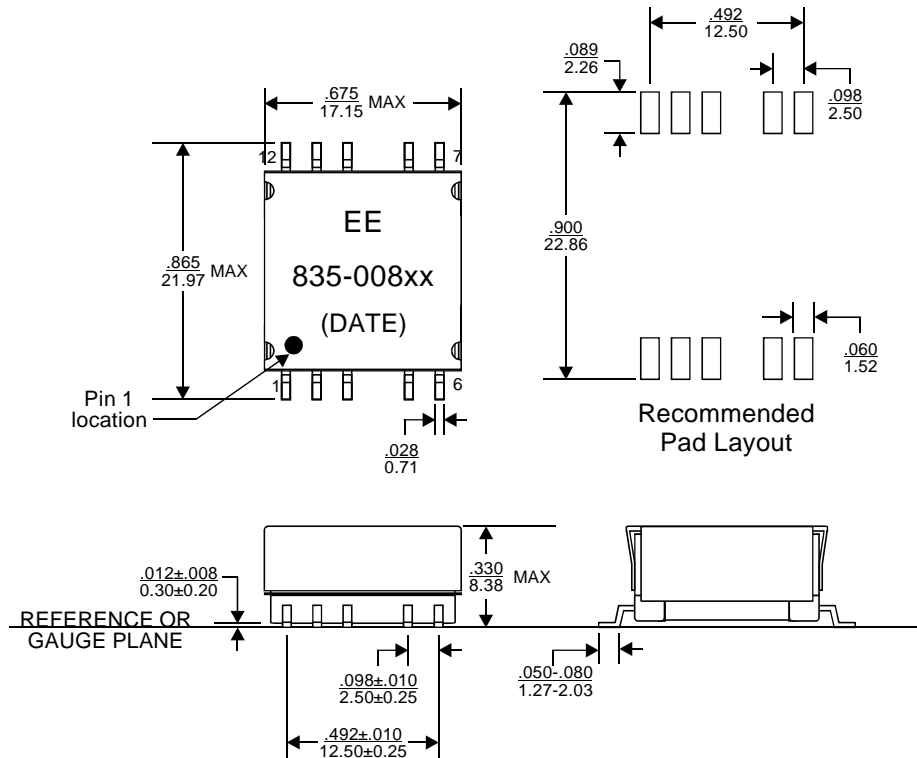
Part Number	RoHS Part Number	Turns Ratio		Inductance at 0A (uH ± 10%)	Inductance at Ipk (uH Min)	Leakage Inductance (nH Max)	DCR (mOhm Max)			Ipk (A)	Secondary Output
		Pri : Sec	Pri : Bias				Pri	Sec	Bias		
835-00830	835-00830F	1 : 0.07	1 : 0.36	75	67.5	8.0	195	5	195	1.3	Vout=1.8V,3.3A
835-00831	835-00831F	1 : 0.08	1 : 0.33	55	49.5	4.6	95	5	150	1.2	Vout=2.5V,2.4A
835-00832	835-00832F	1 : 0.11	1 : 0.36	65	58.5	3.9	138	7	180	1.2	Vout=3.3V,1.8A
835-00833	835-00833F	1 : 0.15	1 : 0.35	60	54.0	2.3	130	9	165	1.1	Vout=5.0V,1.2A
835-00834	835-00834F	1 : 0.35	1 : 0.35	55	49.5	0.7	95	17	150	1.1	Vout=12V,0.5A

Notes:

1. Inductance is measured at 250kHz, 0.3Vrms.
2. Peak primary current, Ipk, is drawn at minimum input voltage.
3. DCR for the primary and for the secondary are with the windings connected in parallel.
4. Leakage Inductance is for the primary winding with the secondary winding shorted.
5. Turns ratio are with the primary and the secondary windings connected in parallel.
6. Output of the secondary is with the windings connected in parallel. Bias winding output is 12V, 20mA.
7. Operating temperature range: -40°C to +125°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.



MECHANICAL DIMENSIONS

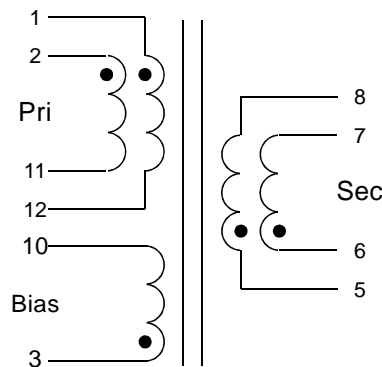


Notes:

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

Weight (in gram)	: 6.2 typ.
Tape & Reel	: 250 / reel

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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