Flyback Transformers

- Flyback transformers for 13 W Power over Ethernet (PoE) applications.
- Designed to operate in continuous mode at 250 kHz with an input of 36 – 72 Vdc.
- 1500 Vrms isolation from primary and bias to secondary.
- Custom designs available.
- Operating Temperature: -40°C to +85 °C.
- Storage Temperature: -40°C to +85 °C.

ELECTRICAL SPECIFICATIONS @25°C

Model No.	Inductance at 0 A[1] ±10% (uH)	Inductance at Ipk[2] min (uH)	DCR max (Ohms)[3]			Leakage Inductance max (uH)[4]	Turns ratio[5]		Ipk[2] (A)	Output[6]
			pri	bias	sec		pri:sec	pri:bias		
UT35K82S	127	114.3	0.255	0.310	0.024	1.25	1:0.166	1:0.50	1.0	3.3 V, 4.0 A
UT35K83S	127	114.3	0.222	0.348	0.039	0.950	1:0.25	1:0.50	1.0	5.0 V, 2.6 A
UT35K84S	127	114.3	0.199	0.308	0.129	0.650	1:0.50	1:0.50	1.0	12 V, 1.08 A
UT35L96S	127	114.3	0.290	0.355	0.066	0.800	1:0.567	1:0.50	1.0	19.5 V, 0.67 A
UT35L97S	127	114.3	0.255	0.315	0.067	0.600	1:0.667	1:0.50	1.0	24V, 0.54A

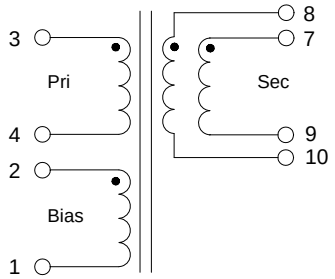
1. Inductance is for the primary, measured at 250kHz, 0.2 Vrms, 0 Adc.
2. Ipk is peak primary current drawn at minimum input voltage.
3. DCR for the secondary is per winding.
4. Leakage inductance measured between pins 3 and 4 with all other pins shorted.
5. Turns ratio is with the secondary windings connected in parallel.
6. Output of the secondary is with the windings connected in parallel. Bias winding output is 12 V, 20 mA.

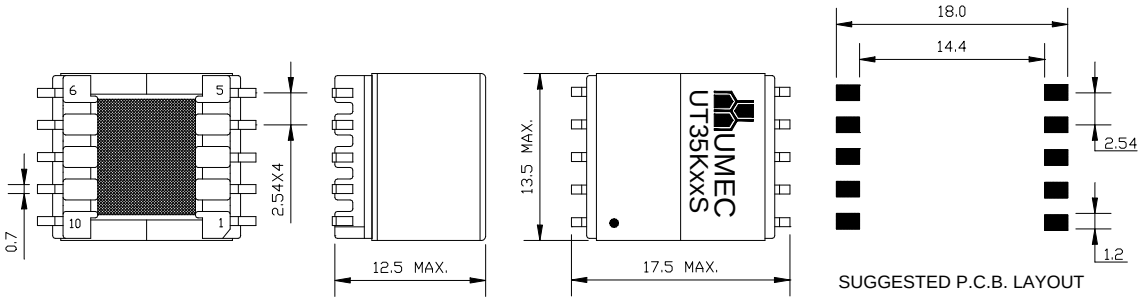
Note: For RoHS compliant products:

a.) The UMEC ordering code: EX. **TG-UT35K82S**
b.) Solder: Sn/Ag/Cu
c.) Date Code suffix to "G" (xxxxG).

MECHANICAL & SCHEMATIC:

Green Product





UNIVERSAL MICROELECTRONICS CO.,LTD. *3,27TH RD.,TAICHUNG INDUSTRIAL PARK,*
TEL:886-4-23590096 FAX:886-4-23590129 *TAICHUNG,TAIWAN,R.O.C*

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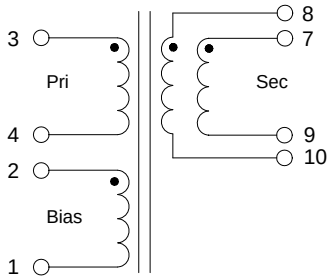

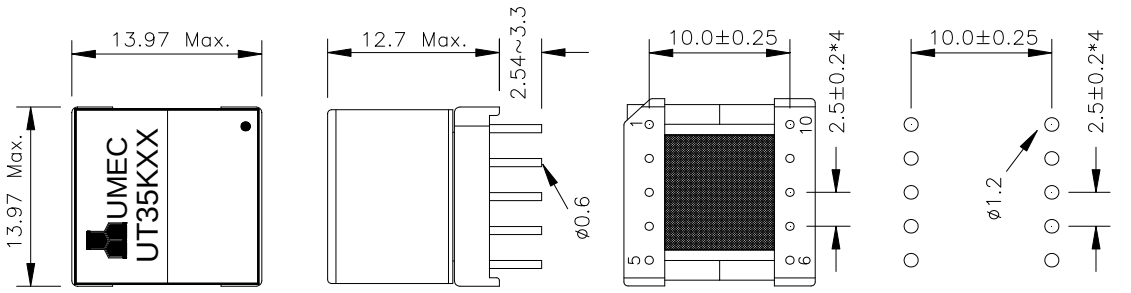

SUGGESTED P.C.B. LAYOUT

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