

Current Sense Transformers

~ EP10 Platform small SMD packages

- The max. primary current rating of 30A
- Typical operating frequency 50~250KHz.
- Basic insulation for a working voltage up to 500Vrms,
Compliance with IEC60664 and IEC61558-2-16

ELECTRICAL SPECIFICATIONS @25°C

Model No.	Inductance(4-5) Min. (mH)	Primary Peak Sense Current (Amps)	DCR max (mΩ/Ω)		ET Max. @120°C (V-usec Max.)	Cw/w (pF Max.)	Turns ratio	Hi-POT (Vac)
			(1-2)	(4-5)			(1-2):(5-4)	
UT33035S	1.7	30	0.5	1.5	140	4	1:50	2400
UT33036S	3.0	30	0.5	2.1	200	4	1:70	
UT33037S	7.0	30	0.5	3.1	290	4	1:100	
UT33038S	11.0	30	0.5	4.0	360	4	1:125	
UT33039S	25.0	30	0.5	7.4	520	4	1:180	

Notes:

1. Inductance is measured at 20kHz, 10m Vrms, Cw/w is measured at 100kHz, 0.1 Vrms .
2. To calculate the value of the terminating resistor (Rt) use the following formula: $R_t (\Omega) = V_{ref} * N / (I_{peak_primary})$
3. The peak flux density of the device must remain below 2000gauss. To calculate the peak flux density for uni-polar current use following formula: $B_{pk} = 8.85 * V_{ref} * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$
4. Approved by UL1446 Class F(155°C) electrical insulation systems per UL File No. E149484 with GH-155.
5. Operating Temperature : -40 to +150°C

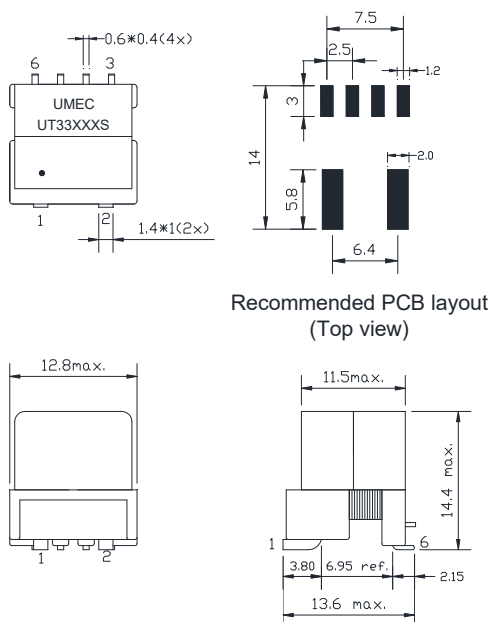
For RoHS compliant products:

- a.) Ordering code (Manufacturer Part Number): EX. TG-UT33035S
- b.) Solder: Sn/Ag/Cu
- c.) Date Code suffix to "G" .

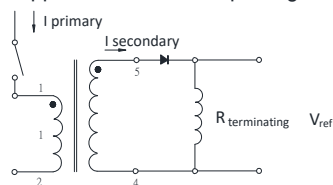
For RoHS and AEC-Q200 compliant products (To be tested):

- a.) Ordering code (Manufacturer Part Number): EX. TG-UT33035S-Q
- b.) Date Code suffix to "GQ"

MECHANICAL & SCHEMATIC:



Application circuit and pinning



*Specifications are subject to change without prior notice

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