

Flyback and Forward Transformers

with Industry EP13LH10 SMT Footprint (reinforced insulation)

- Power Range: Up to 24W
- Input voltage range: 33 V to 75 V, 200kHz (UT38C00~05S)
85 V to 265V,140kHz (UT38C06~08S)
- Topology : Forward and Flyback
- >8.0mm creepage , 3.0kVrms Isolation
- Height : 16.5mm max
- Operating Temperature: -40°C to +130 °C.
- Storage Temperature: -40°C to +85 °C.

ELECTRICAL SPECIFICATIONS @25°C

Model No.	Inductance at 0 Adc ¹	DCR max (mOhms)				Leakage Inductance max (uH) ²	Turns ratio	Topology	Output
		Pri	Aux	Sec1	Sec2		Pri:Aux:Sec1:Sec2		
UT38C00S	100uH +/-15%	130	500	15	15	1.0	5.33 : 2.67 : 1 : 1	Fordward	3.3 V, 3.0A
UT38C01S	100uH +/-15%	130	500	20	20	1.0	4 : 2 : 1 : 1	Fordward	5.0 V, 2.0 A
UT38C02S	100uH +/-15%	130	500	50	50	1.0	1.78 : 0.89 : 1 : 1	Fordward	12 V, 0.8 A
UT38C03S	80uH +/-10%	180	500	15	15	1.5	7.33 : 2.67 : 1 : 1	Flyback	3.3V, 2.0A
UT38C04S	80uH +/-10%	180	500	20	20	1.5	5.5 : 2.0 : 1 : 1	Flyback	5.0V, 1.3A
UT38C05S	80uH +/-10%	180	500	50	50	1.5	2.44 : 0.89 : 1 : 1	Flyback	12V , 0.55A

Model No.	Inductance at 0 Adc ¹	DCR max (mOhms)				Leakage Inductance max (uH) ²	Turns ratio	Topology	Output
		Pri	Aux	Sec1	Sec2		Pri:Aux:Sec1:Sec2		
UT38C06S	173uH +/-15%	550	240	15	15	3.5	16.33 : 3 : 1 : 1	Flyback	3.3V , 3A
UT38C07S	160uH +/-15%	550	240	20	20	3.5	11.2 : 2.0 : 1 : 1	Flyback	5V , 2.25A
UT38C08S	155uH +/-15%	550	240	50	50	3.5	4.455 : 0.82 : 1 : 1	Flyback	12V, 1.0A

1. Inductance is for the primary, measured at 100kHz , 0.1 Vrms, 0 Adc.
2. Leakage inductance measured at 100kHz , 1Vrms between pins 1 and 3 with all other pins shorted.
3. Output is for each secondary. auxiliary winding output is 10 V, 50 mA.

Note: For RoHS compliant products:

- a.) Ordering code (Manufacturer Part Number): EX. **TG-UT38C00S**
- 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-UT38C00S-Q**
- b.) Date Code suffix to "GQ"

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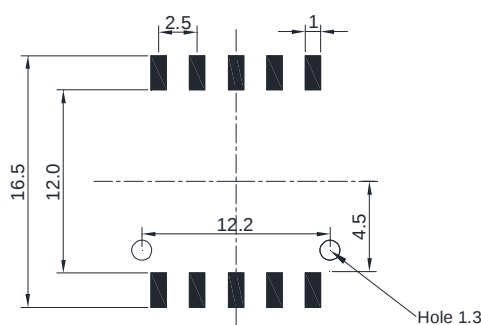
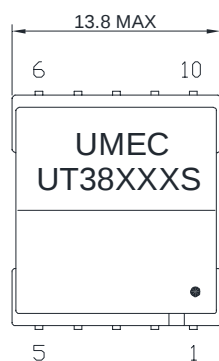


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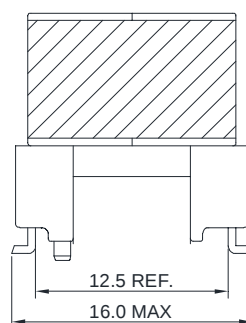
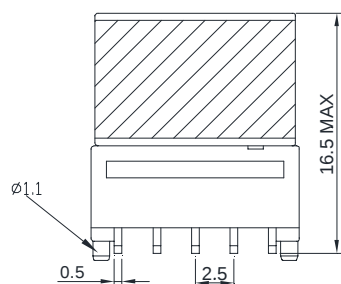
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MECHANICAL & SCHEMATIC:



SUGGESTED P.C.B. LAYOUT



*Specifications are subject to change without prior notice.

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