

# High Isolation Power Transformers

- Push Pull Transformer Application.
- An isolated RS-485/RS-232 power supply driver circuit , the design is compatible with the MAX253 IC.
- Reinforced insulation for a working voltage up to 400Vac 8mm creepage and 5KVrms isolation.

## ELECTRICAL SPECIFICATIONS @25°C

| Model No. | Inductance(1-3)<br>±45% (uH) | Leakage<br>Inductance<br>max (uH) | DCR max<br>(Ohms) |       | ET MAX (1-3)<br>(V-usec MAX) | CAP<br>(pF MAX) | Turns ratio | Isolated<br>Voltage<br>(Vrms) |
|-----------|------------------------------|-----------------------------------|-------------------|-------|------------------------------|-----------------|-------------|-------------------------------|
|           |                              |                                   | (1-3)             | (4-6) |                              |                 | (1-3):(6-4) |                               |
| UT38897S  | 750                          | 1.2                               | 0.50              | 0.55  | 66                           | 10.0            | 1CT:1CT     | 5000                          |
| UT38898S  | 450                          | 0.9                               | 0.40              | 0.80  | 52                           | 10.0            | 1CT:2CT     |                               |
| UT38899S  | 200                          | 0.6                               | 0.35              | 0.95  | 36                           | 8.0             | 1CT:3CT     |                               |
| UT38900S  | 1800                         | 3.0                               | 0.75              | 0.45  | 100                          | 10.0            | 2CT:1CT     |                               |
| UT38901S  | 750                          | 1.2                               | 0.50              | 0.75  | 66                           | 10.0            | 3CT:4CT     |                               |
| UT38902S  | 310                          | 0.9                               | 0.44              | 1.00  | 44                           | 8.0             | 3CT:8CT     |                               |
| UT38903S  | 1260                         | 1.5                               | 0.70              | 0.56  | 89                           | 12.0            | 4CT:3CT     |                               |
| UT38904S  | 2350                         | 6.0                               | 0.90              | 0.40  | 110                          | 8.0             | 8CT:3CT     |                               |

1. Inductance is for the primary (1-3), measured at 10kHz, 0.1 Vrms, 0 Adc.
2. Leakage inductance is for primary winding with the secondary windings shorted, measured at 100kHz, 0.1 Vrms .
3. CAP is for PIN(1-3):(6-4) , measured at 100kHz, 0.1 Vrms .
4. The transformer meets the specifications for Reinforced insulation per UL60950-1 , CAN/CSA-22.2 60950-1 , EN61558-1 , EN61558-2.
5. The transformer meets the class 155(F) electrical insulation systems per E149484 with GH-155.
6. Operating Temperature : -40 to +125°C

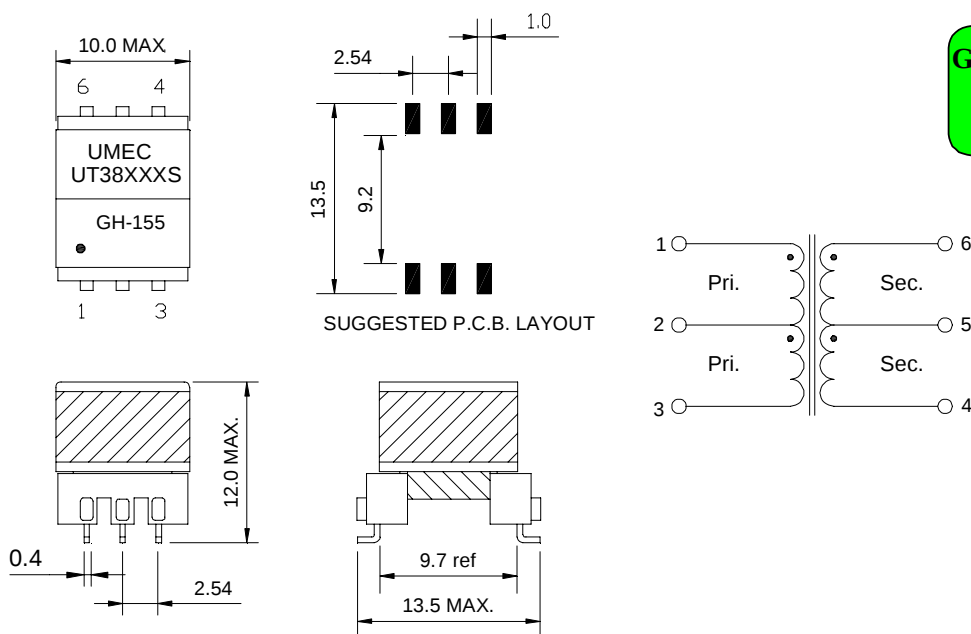
Note: For RoHS compliant products:

- a.) Ordering code (Manufacturer Part Number): EX. TG-UT38897S
- b.) Solder: Sn/Ag/Cu
- c.) Date Code suffix to "G" .

For RoHS and AEC-Q200 compliant products:

- a.) Ordering code (Manufacturer Part Number): EX. TG-UT38897S-Q
- b.) Date Code suffix to "GQ"

## MECHANICAL & SCHEMATIC:



\*Specifications are subject to change without prior notice.

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UNIVERSAL MICROELECTRONICS CO.,LTD.  
TEL:886-4-23590096 FAX:886-4-23590129

3,27TH RD.,TAICHUNG INDUSTRIAL PARK,  
TAICHUNG,TAIWAN,R.O.C



ES France - Département Composants & Modules  
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 89  
Fax. 01 47 01 16 22



e-mail : comp@es-france.com  
Site Web : www.es-france.com