

DATA SHEET

UM MODEL NO.:	SPECIFICATIONS	REV.	
UT12052	10/100/1000BASE-T for Power over Ethernet(PoE)	A1	06/28

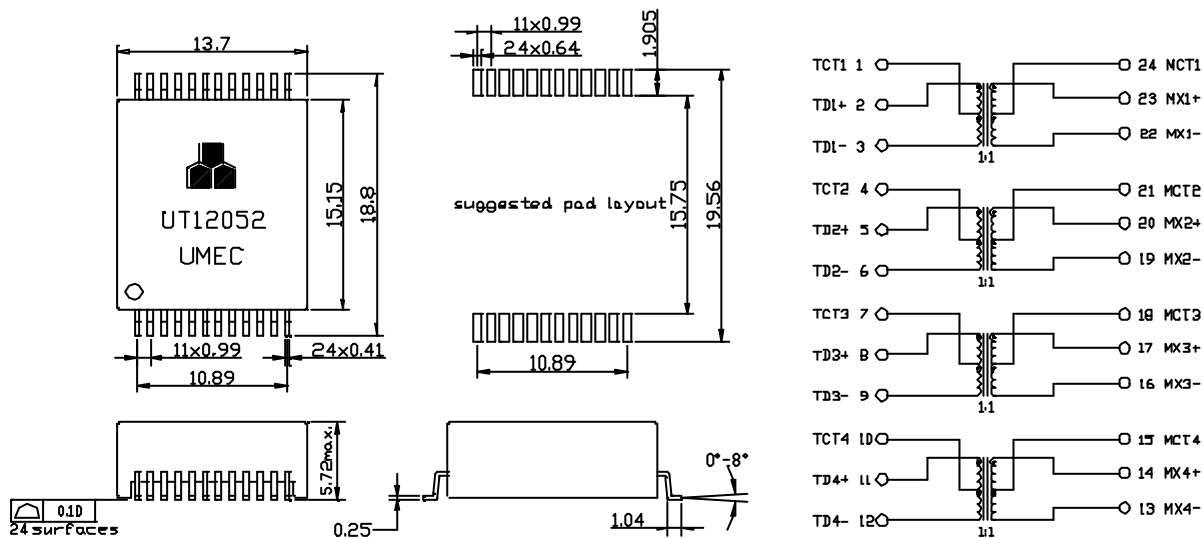
Features:

1. Compliant performance meet IEEE 802.3af/ANSI X3.263 standard
2. Suitable for End-span and Mid-span PoE applications
3. 350mA current capability
4. Operating temperature: 0°C to +70°C
5. For RoHS Compliant is Designed for reflow soldering at temperature 245°C(+0°C/-5°C)

Electrical Specification @25°C:

1. Pre. OCL: 400uH min. at 100KHz 100mV
2. Turns Ratio and Polarity: 1:1+/-2%
3. Insertion Loss: -1.0dB Max. @1-100MHz
4. Return Loss: -18dB Min. @1-30MHz
-18dB Min. @40MHz
-16dB Min. @50MHz
-12dB Min. @60-80MHz
-10dB Min. @100MHz
5. Cross Talk:-45dB Min. @30MHz. TX to RX
-43dB Min. @60MHz. TX to RX
-42dB Min. @100MHz. TX to RX
6. Com. to Com. Mode Rejection : -35dB Min. @1-100MHz TX/RX
7. DC resistance (Primary and Secondary a half winding): 0.7 ohms max.
8. DC resistance Balance: 3% Max.(media side)
9. Hi-Pot: 1500Vrms/5sec. Leakage Current 1mA Max./input to output
500Vdc/5Sec. Leakage Current 1mA Max./ Primary to Primary and Secondary to Secondary

Dimensions & Schematic :



- Note: 1. Packaging information-tape and reel according to item no. "S024D" of data sheet 01-00
2. For RoHS compliant products:
 - a.) The UMEC ordering code: **TG-UT12052**
 - b.) Date Code suffix to "G" (xxxxG).
 - c.) Solder : Sn/Ag/Cu .
 3. Specifications are subject to change without prior notice



UNIT: mm

Tolerances±0.25mm

E10-007-C



UNIVERSAL MICROELECTRONICS CO.,LTD.
TEL:886-4-23590096 FAX:886-4-23590129
http://www.umec-web.com Email:business@umec.com.tw

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