

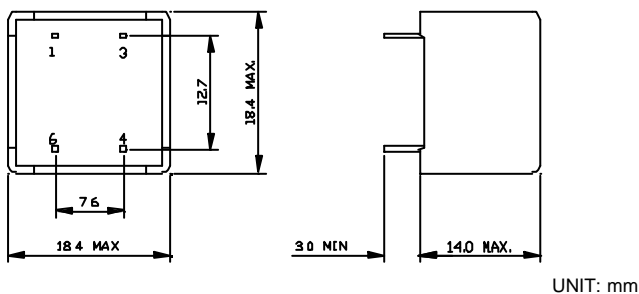
# Modem Coupling Transformer – UT41659

## ELECTRICAL SPECIFICATIONS AT 25°C :

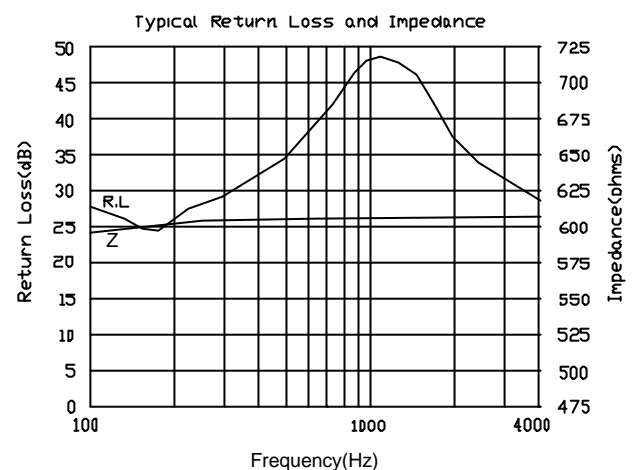
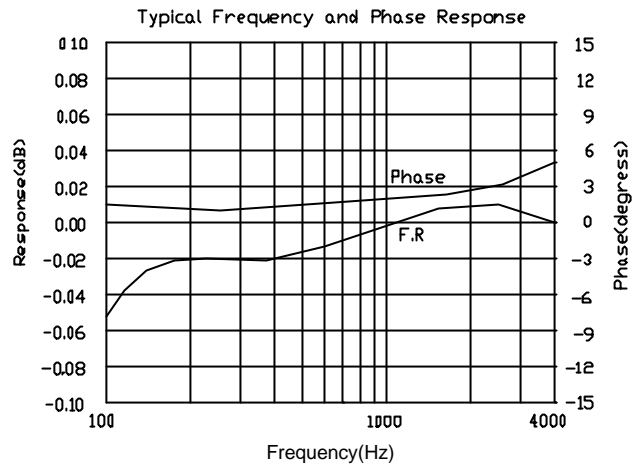
- \*Impedance : Designed to reflect 600ohms on PRI.  
with 412ohms on SEC.
- \*Turns Ratio : 1:1  $\pm 2\%$
- \*D.C.Current in PRI. : None.
- \*D.C.Resistance : PRI.:86ohms  $\pm 15\%$ .  
SEC.:108ohms  $\pm 15\%$ .
- \*Dielectric Test : 3000Vac , PRI. to SEC.
- \*Insertion Loss : 1.4dB max. , @ 1KHz , 0dBm.  
(600 $\Omega$  ref, 600 $\Omega$  load)
- \*Frequency Response :  $\pm 0.1$ dB , @ 100Hz , ref. 1KHz 0dB.  
 $\pm 0.05$ dB , @ 4KHz , ref. 1KHz 0dB.  
(600 $\Omega$  ref, 600 $\Omega$  load)
- \*Total Harmonic Distortion : -65dB max. , @ 200Hz , -3dBm .  
-80dB max. , @ 600Hz , -10dBm .  
(600 $\Omega$  ref, 600 $\Omega$  load)
- \*Return Loss : 27.5dB min. , 200Hz to 4KHz.  
(recommended circuit)
- \*Series Inductance : 4.5H min. @ 1KHz 250mV

NOTE : 1.This transformer meets the specifications for supplementary insulation per IEC 950 with a working voltage of 250V.  
2. For RoHS compliant products:  
a.) UMEC Ordering Code: **TG-UT41659**  
b.) Date Code suffix to "G" (xxxxG).  
c.) Solder: Sn/ Cu.  
3. Specifications are subject to change without prior notice.

## SCHEMATIC DIAGRAMS & DIMENSIONS :



## TYPICAL GRAPHS :



## SPICE TRANSMISSION MODEL :

