

# ADSL/POTS

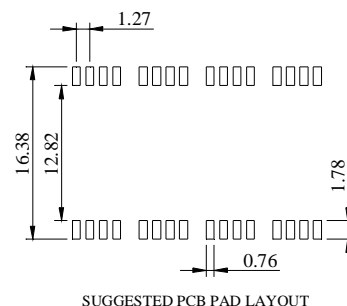
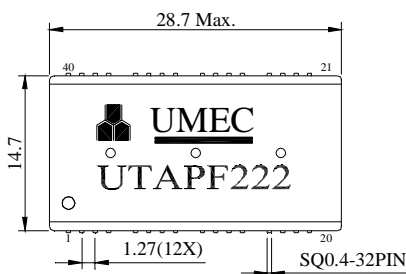
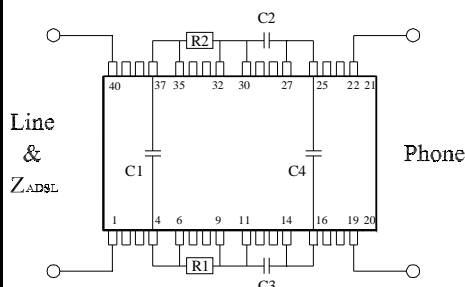
UM MODEL NO.:	SPECIFICATIONS	REV.	
UTAPF222	ADSL POTS CO Filter Choke	A0	2004/40

## Electrical specification at 25°C:

- 1.) Impedance ( $Z_R$ ) :  $320\Omega + (1050\Omega // 230nF)$  .
- 2.) Total D.C.R. :  $50\Omega$  max. , PIN(1-40),PIN(19-22)connected .
- 3.) Insertion Loss :  $1.0dB$  max. ,at 1K Hz ,Line to Phone , Line with  $Z_{ADSL}$  .
- 4.) Pass Band Ripple :  $\pm 1.0dB$  max. , 100Hz to 4000Hz , 1KHz 0dB ref,Line to Phone , Line with  $Z_{ADSL}$  .
- 5.) Attenuation :  $55dB$  min. , 32KHz to 1.1MHz , Line to Phone , Line with  $Z_{ADSL}$  .
- 6.) Return Loss. :  $12dB$  min. , 100Hz to 3400Hz , Line to Phone , Line with  $Z_{ADSL}$  , Phone with  $Z_R$  .  
:  $8dB$  min. , 3400Hz to 4000Hz , Line to Phone , Line with  $Z_{ADSL}$  , Phone with  $Z_R$  .
- 7.) Longitudinal Balance :  $40dB$  min. , 100Hz to 600Hz , Line to Phone.  
:  $46dB$  min. , 600Hz to 3200Hz , Line to Phone.  
:  $40dB$  min. , 3200Hz to 4000Hz , Line to Phone.
- 8.) Group Delay :  $250\mu Sec$  max. , 100Hz to 4000Hz .
- 9.) Line Side Impedance :  $1.0K\Omega$  max. , 32KHz to 1.1MHz ,PIN(1-40) .

**Note: Designed to meet ETSI specification TS101-952-1-1 & TR 101 728-V1.2.1.**

## Schematic diagram & Dimension:



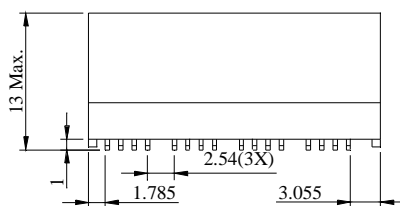
External components:

$C_1 = 22nF \pm 5\%$

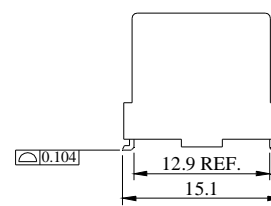
$C_2 = C_3 = 15 nF \pm 5\%$

$C_4 = 33nF \pm 5\%$

$R_1 = R_2 = 49.9\Omega \pm 1\%$



CUT PIN 5,10,15,20,21,26,31,36



TOLERANCE:  $\pm 0.2$  UNIT: mm

UNIT : mm

Tolerances :  $\pm 0.2mm$



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

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

E10-033-C