

# ADSL / VDSL

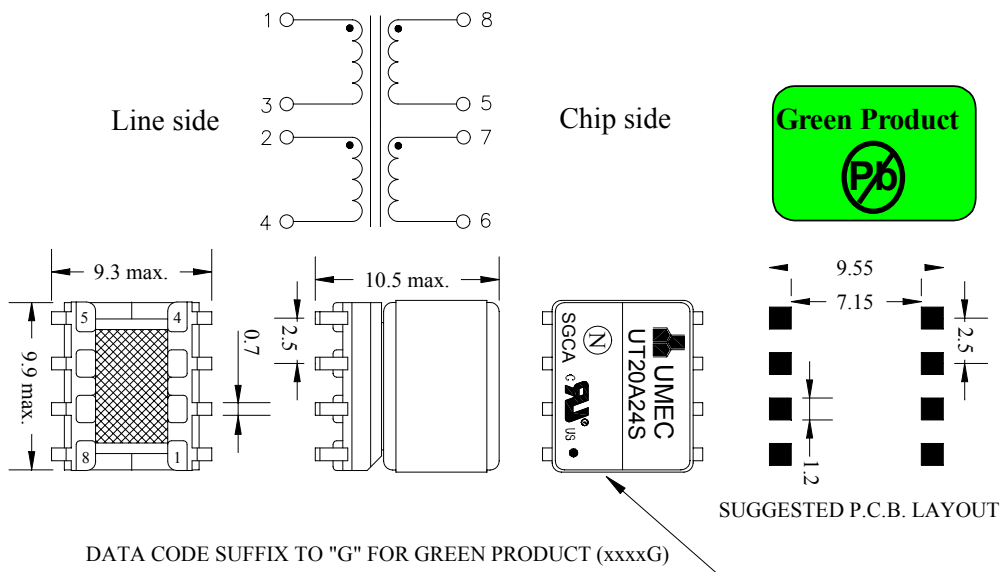
UM MODEL NO.:	SPECIFICATIONS	REV.	
UT20A24S	ADSL/VDSL EP7H Transformer for Broadcom chipset Supplementary Insulation , 250V Working Voltage	A1	2006/12

## Electrical specification at 25°C:

- 1.) Turns Ratio and Polarity : 1.2CS : 1CS  $\pm 2\%$  , Line side to Chip side.
- 2.) D.C.R. : 0.50 $\Omega$  max. , PIN(1-3).  
: 0.50 $\Omega$  max. , PIN(2-4).  
: 1.0 $\Omega$  max. , PIN(8-5).  
: 1.0 $\Omega$  max. , PIN(7-6).
- 3.) Line side Inductance : 100 $\mu$ H  $\pm 8\%$  , at 10KHz 100mV, PIN(1-4) ; PIN(2-3) shorted.
- 4.) Leakage Inductance : 4 $\mu$ H max. , at 100KHz 100mV, PIN(1-4) ; PIN(2-3)&PIN(8-5-7-6) shorted.
- 5.) Interwinding Capacitance : 20pF max. , at 100KHz 100mV , PIN(1-3-2-4) : PIN(8-5-7-6)
- 6.) Longitudinal Balance : 55dB min. , 2.2MHz .
- 7.) T.H.D. : -85dB max. , at 100KHz 3V.
- 8.) HI-pot test : 1500Vac 60s or 1875Vac 1s , Line side to Chip side .
- 9.) Surge Testing : 1.5KV 10/700 surge pulses between both split primary windings (to pass ITU K.20)  
: 2.5KV 2/10 surge pulses between primary / secondary (to pass Telcordia 1089)
- 10.) Operating Temperature : -40 to +85 °C

**Note: The SGCA series transformer meets the specifications for supplementary insulation per UL60950-1, CSA60950-1, EN60950-1, IEC60950-1 with working voltage of 250V.**

## Schematic diagram & Dimension:



- NOTE : 1. Packaging Information: Tape and Reel according to Item NO. "EP7H" OF DATA SHEET 01-00  
2. For RoHS compliant products:  
a.) The UMEC ordering code: **TG-UT20A24S**  
b.) Date Code suffix to "G" (xxxxG).  
c.) Solder : Sn/Ag/Cu .  
3. Specifications are subject to change without prior notice.

UNIT : mm

Tolerances :  $\pm 0.2$ mm

## AGENCY APPROVALS

UL60950-1	: FILE NO. E212730	IEC60950-1	: CB Rf. #DK-8600
CSA 60950-1 (via C-UL)	: FILE NO. E212730	Nordic, Japan, & Australia Deviations	: CB Rf. #DK-8600
Nemko (EN60950-1)	: Certificate NO. P05203901		

