

SURFACE MOUNT TELECOM TRANSFORMER SM501-1

Features

- UL60950-1 Recognized
- Operating Temp. -20°C to +85°C
- Storage Temp. -20°C to +85°C

APPLICATIONS

- Modems
- Laptop Computers
- Telecommunications
- Instrumentation



ELECTRICAL SPECIFICATIONS AT 25°C

| | | | | |
|---------------------------------|-----------|----------|--|--|
| IMPEDANCE | PRIMARY | 600 Ohms | SHUNT INDUCTANCE (min) | 3.8 H |
| | SECONDARY | 600 Ohms | SHUNT LOSS (min) | 7500 Ohms |
| TURNS RATIO | | 1 : 1 | LEAKAGE INDUCTANCE @ 1kHz | 6.7 mH |
| INSERTION LOSS @ 2 kHz (max) | | 2.0 dB | UNBALANCED D.C. CURRENT | 0 mA |
| FREQUENCY RESPONSE @ 200-4000Hz | | ±0.25 dB | DC RESISTANCE* | PRIMARY (±15%) 115 Ohms SECONDARY (±15%) 115 Ohms |
| RETURN LOSS @ 200-4000Hz | | 24 dB | | |
| LONGITUDINAL BALANCE (min) | | 80 dB | INSULATION RESISTANCE (min) @500VDC | 100 MOhms |
| DISTORTION (max) | | -76 dB | DIELECTRIC STRENGTH for 1 minute (PRI – SEC) | 3750 Vrms |
| POWER LEVEL | | 10 dBm | (100% tested at 4600 Vrms for 2 seconds in production) | |
| | | | Weight: | 2 grams |

Note: For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech)

*SM501-1 is symmetrical meaning there is no real primary or secondary winding.

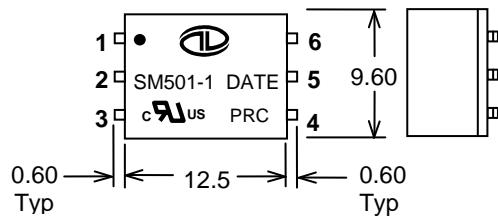
**SM501-1 is identical to SM-LP-5001. SM-LP-5001 is the European version and is UL60950-1 recognized.

Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020D

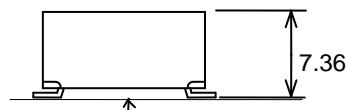
Moisture Sensitivity Level = 3

Dielectric Strength is 2000 Vrms for 1 minute after soldering.

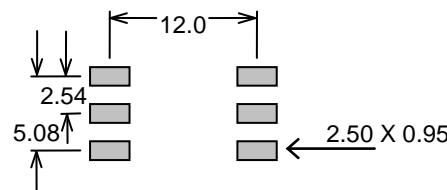
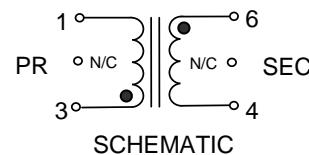
OUTLINE SPECIFICATIONS



ALL DIMENSIONS IN MILLIMETERS
TOLERANCE : .XX =+/-0.25MM

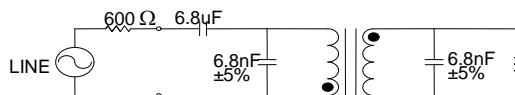


Leads Coplanarity = 0.15mm Maximum



RECOMMENDED CIRCUITS

600Ω MATCHING (SPEECH)



BS6305 CLASS A MATCHING (NON-SPEECH)

