

This part is OBSOLETE, the SM501-1 is a possible replacement
 (Inventory Available letter www.datatronics.com/pdf/sm502-1-inventory-available.pdf)
SURFACE MOUNT TELECOM TRANSFORMER SM502-1

FEATURES

- Subminiature
- Vacuum encapsulated
- Operating Temperature -20°C to +85°C

- 7.36mm seated Height
- Tested at 4600 Vrms
- Weight ≈ 2 gram
- Storage Temperature -20°C to +85°C

**APPLICATIONS**

- MODEMS
- LAPTOP COMPUTERS

- TELECOMMUNICATIONS
- INSTRUMENTATION

**ELECTRICAL SPECIFICATIONS AT 25°C**

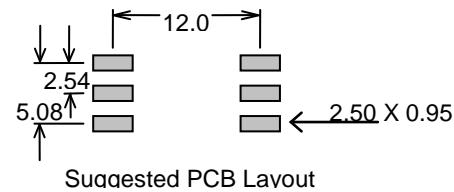
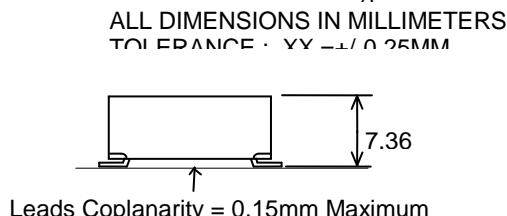
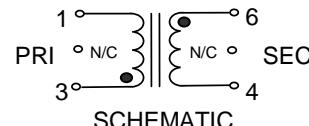
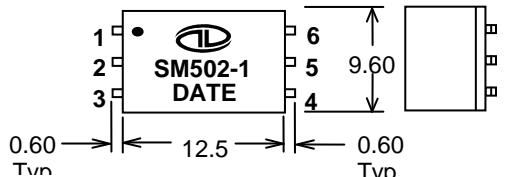
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|--------------------------------------|-----------|----------|-------------------------------------|-----------|
| IMPEDANCE | PRIMARY | 600 Ω | SHUNT INDUCTANCE (MIN) | 3.8 H |
| | SECONDARY | 600 Ω | SHUNT LOSS (MIN) | 7500 Ω |
| URNS RATIO | | 1 : 1 | LEAKAGE INDUCTANCE @1KHz (TYP) | 7 mH |
| INSERTION LOSS @2KHz (MAX) | | 3.0 dB | UNBALANCE D.C. CURRENT | 0 mA |
| FREQUENCY RESPONSE @200-4000Hz (MAX) | | ±0.25 dB | DC RESISTANCE* PRIMARY (± 15%) | 150 Ω |
| RETURN LOSS @200-4000Hz (MIN) | | 24 dB | SECONDARY (± 15%) | 150 Ω |
| LONGITUDINAL BALANCE (MIN) | | 80 dB | INSULATION RESISTANCE @500VDC (MIN) | 100 MΩ |
| DISTORTION (TYP) | | -85 dB | DIELECTRIC STRENGTH for 1 minute | 4600 Vrms |
| POWER LEVEL | | 10 dBm | | |

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

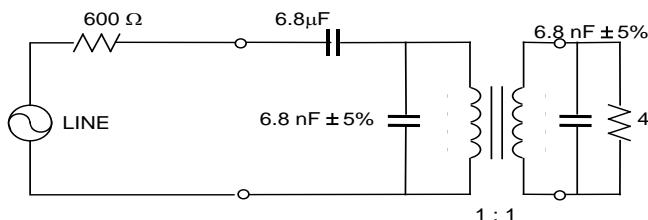
* SM502-1 Is symmetrical meaning there is no real primary or secondary winding.

**SM502-1 is identical to SM-LP5002. SM-LP5002 is European version.

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

OUTLINE DIMENSIONS**RECOMMENDED CIRCUITS**

600 Ohm Matching (speech)



BS6305 Class (A) Matching (non-speech)

