Features
- 7.5 mm seated height
- Distortion of only 0.015%
- Vacuum encapsulated
- Weight - 2 g
- UL60950 approved
- RoHS compliant*

Applications
- Modems (V34 and V92)
- Laptop Computers
- Telecommunications
- Instrumentation

SM-LP-5002 Series - Surface Mount Line Matching Transformers

Electrical Specifications
Nominal Impedance ......................... 600 Ω
Turns Ratio ........................................ 1:1
Insertion Loss ................... 2.0 dB max. at 2 kHz
Frequency Response
 ................. ±0.25 dB max. 200-4 kHz
Return Loss ........... 24 dB min. 200-4 kHz*
Balance ...................... 80 dB min.
Distortion ......................... -85 dB max.

Dielectric Strength ...2000 VRMS for 1 min.
Insulation Resistance ...100 MΩ @ 500 V
DC Resistance**
Primary ........................................ 136 Ω ± 12 %
Secondary ..................................... 136 Ω ± 12 %
Shunt Inductance ................. 3.8 H min.
Shunt Loss ..................... 7500 Ω min.
Leakage Inductance ...6-7 mH typ. @ 1 kHz
Power Level ...................... 10 dBm
Operating Temperature .... -20 °C to +85 °C
Storage Temperature ....... -40 °C to +85 °C

How To Order
SM-LP-5002 __
Model
Packaging
Blank = Packaged in tubes
E = Tape and reel (400 pcs. per reel)

Materials
Terminal Plating .................. Sn/Ag/Cu

*S建议使用推荐电路
(BS6305 impedance Class A non-speech or Class B speech).

**SM-LP-5002 is symmetrical, meaning there is no real primary nor secondary winding.

Solder Profile

WARNING  Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.
SM-LP-5002 Series - Surface Mount Line Matching Transformers

Packaging Specifications

**Dimensions:**
- DIA. MIN.
  - 0.5 ± 0.05
  - (.020 ± .002)
- 2.0 ± 0.1
  - (.079 ± .004)
- 4.0 ± 0.1
  - (.157 ± .004)
- 11.50 ± 0.1
  - (.453 ± .004)
- 14.95 ± 0.1
  - (.589 ± .004)
- 24.90 ± 0.3
  - (.983 ± .012)

**User Direction of Feed**
- **Quantity:** 400 PCS. PER REEL

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