

Features

- 7.5 mm seated height
- Distortion of only 0.015 %

Product Dimensions

12.8 (.504)

<u>2.0</u> (.079)

 0.6 ± 0.2

(.023 ± .008)

Suggested PCB Layout

15.0

(.591)

⊐6

⊐5 (.354) ¥

 $\frac{2.54}{(.100)}$

¥

.

- MAX. (.006)

MAX.

±0.25

MM

(INCHES) 0.15

- Vacuum encapsulated
- Weight 2 g

0.3

(.012)

¥

<u>2.54</u> (.100)

¥

1.0 +0.25/-0.0

(.039 + .010/-0.0)

3.0 (.118)

(.059)

DIMENSIONS:

LEAD COPLANARITY:

UNLESS OTHERWISE

SPECIFIED, TOLERANCE: (.010)

- UL60950 approved
- RoHS compliant*

Applications

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

How To Order

Electrical Specifications

Nominal Impedance
Insertion Loss 2.0 dB max. at 2 kHz
Frequency Response
±0.25 dB max. 200-4 kHz
Return Loss24 dB min. 200-4 kHz*
Balance 80 dB min.
Distortion85 dB max.
@ 600 Hz, -10 dBm
Dielectric Strength2000 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
Leakage Inductance6-7 mH typ. @ 1 kHz
Power Level 10 dBm
Fower Level

Operating Temperature.... -20 °C to +85 °C Storage Temperature -40 °C to +85 °C

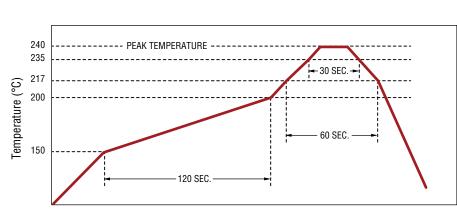
Materials

Terminal Plating	Sn/Ag/Cu
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*For use with recommended circuit (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



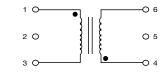
Time (Seconds)



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. 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.

Model <u>1.0</u> (.039) Packaging 7.5 Blank = Packaged in tubes (.295) ¥ E = Tape and reel (400 pcs. per reel) ¥ Schematic ٨ 1 C 9.0

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

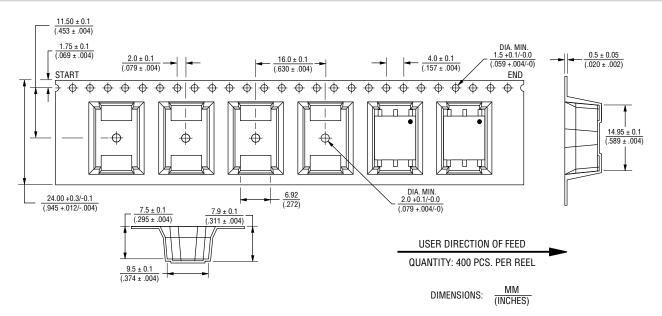


SM-LP-5002

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

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Packaging Specifications



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