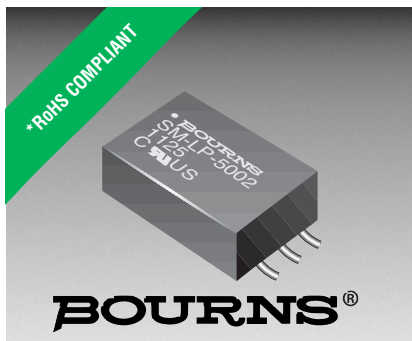




## Features

- 7.36 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 $\Omega$                     |
| Turns Ratio .....           | 1:1                              |
| Insertion Loss .....        | 2.0 dB max. at 2 kHz             |
| Frequency Response .....    | $\pm 0.25$ dB max. 200-4 kHz     |
| Return Loss .....           | 24 dB min. 200-4 kHz*            |
| Balance .....               | 80 dB min.                       |
| Distortion .....            | -85 dB max.<br>@ 600 Hz, -10 dBm |
| Dielectric Strength .....   | 2000 VRMS for 1 min.             |
| Insulation Resistance ..... | 100 M $\Omega$ @ 500 V           |
| DC Resistance** .....       |                                  |
| Primary .....               | 136 $\Omega \pm 12$ %            |
| Secondary .....             | 136 $\Omega \pm 12$ %            |
| Shunt Inductance .....      | 3.8 H min.                       |
| Shunt Loss .....            | 7500 $\Omega$ 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                 |

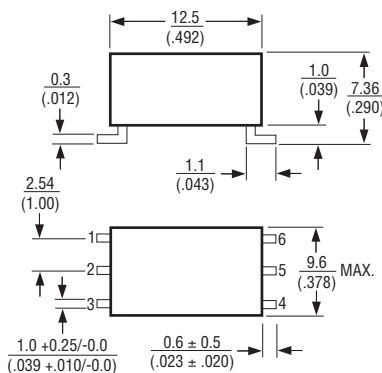
### Materials

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

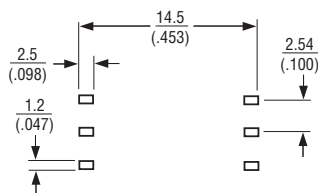
\*For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech).

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

### Product Dimensions



### Suggested PCB Layout

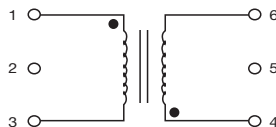


DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

LEAD COPLANARITY:  $\frac{0.15}{(0.006)}$  MAX.

UNLESS OTHERWISE SPECIFIED, TOLERANCE:  $\frac{\pm 0.25}{(0.010)}$  MAX.

### Schematic



# AMEYA360

## Components Supply Platform

Authorized Distribution Brand :



Website :

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