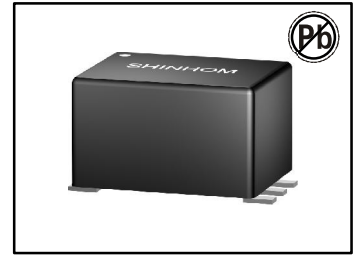


# SURFACE MOUNT LINE MATCHING TRANSFORMERS

## LP-5002 SERIES



### FEATURES:

Subminiature in FAT  
 7.36mm seated height  
 Tested at 4600 Vrms, 1minute  
 Distortion of only 0.015%  
 Vacuum encapsulated  
 UL60950 certified  
 RoHS compliant

### OPTIONS:

Tape and reel is standard  
 (400 pcs. per reel)  
 Bulk packaging available for  
 FAaller quantities  
 Custom design available  
 Tolerance: 5% is standard,  
 Tighter tolerance available

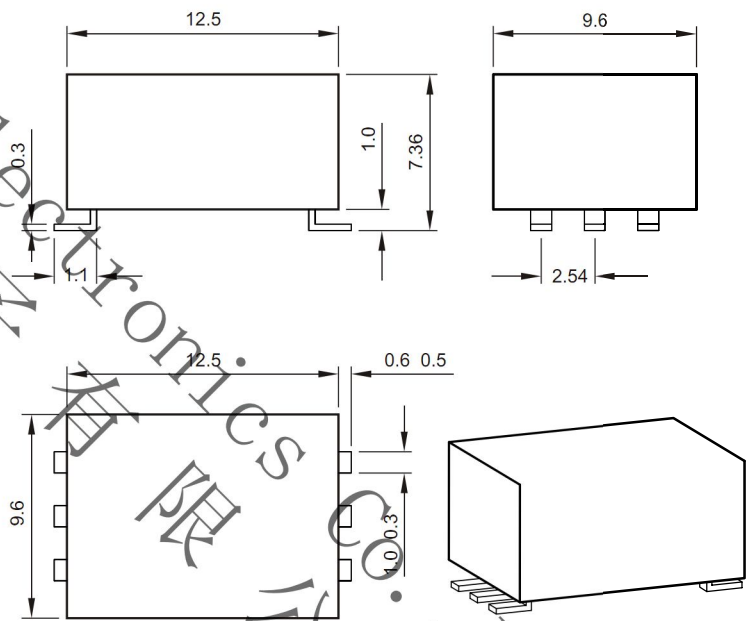
### COMMON APPLICATIONS:

Modems(V32)  
 Laptop Computer  
 Telecommunications  
 Instrumentation  
 PCMCIA

### ELECTRICAL CHARACTERISTICS

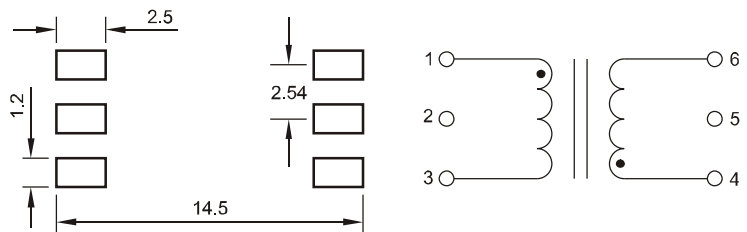
Nominal Impedance:	800
Turns Ratio:	1:1
Insertion Loss:	2.0dB max. @2kHz
Frequency Response:	0.25dB max. 200-4kHz
Return Loss:	24dB min. 200-4kHz
Balance:	80dB min.
Distortion:	-85dB max. @600Hz, -10dBm
Dielectric Strength:	4600 Vrms for 1 min.
Insulation Resistance:	100M @500V
DC Resistance	
Primary:	136 12%
Secondary:	136 12%
Shunt Inductance:	3.8H min.
Shunt:	7500 min.
Leakage Inductance:	6-7mH typ. @1kHz
Power Level:	10dBm
Operating Temperature:	-20 ~+85
Storage Temperature:	-40 ~+85
Terminal Plating Material:	AgSn

### PHYSICAL CHARACTERISTICS



Note: All Dimensions in mm

### TECHNICAL INFORMATION



Suggested PCB Layout

Schematic

Note: All Dimensions in mm

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

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