

Line matching transformer.

200 (Ω) - 200 (Ω)

P1001

Features

- 14.5mm Seated height
- Vacuum encapsulated
- Tested to 6.5 kV isolation
- Flammability to UL94 V0
- Compliant with IEC 60950-1
- Fully shrouded connections

Description

P1001 is the transformer of choice for application to baseband circuits where line current is diverted from the windings by a choke or semiconductor network. At only 14.5mm high, P1001 is significantly lower than most other similar transformers and meets the highest international safety standards, being vacuum encapsulated and 100% tested to withstand 6.5kV DC (4.60kV rms).

P1001 compliant with IEC 60950-1. Equipment incorporating P1001 is capable of approval worldwide. P1001 is supported by recommended matching circuit components to meet the requirements of most National Telephone System Operators.

Specifications

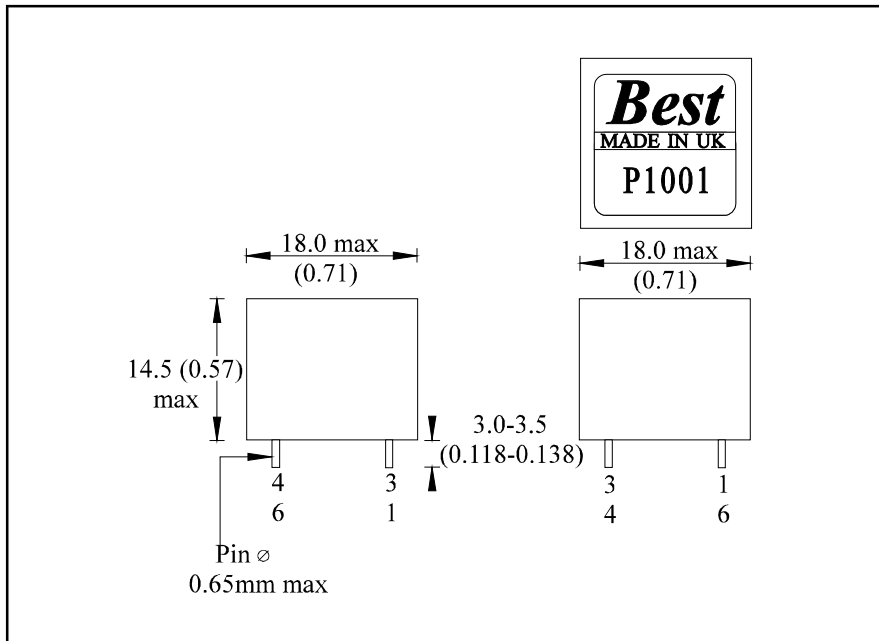
Parameter	Conditions	Min	Typical	Max	Units
Frequency response	200Hz - 4kHz		1		dB
Shunt Inductance	1kHz 10mV			160	mH
Leakage Inductance	1kHz 100mV	0.67		0.80	mH
DC Resistance	Sum of windings			3	Ω
Saturation	Excitation 50Hz, 250V rms Output Voltage across line			10 65	V rms V peak
Voltage Isolation	50Hz DC	3.88 5.5			kV rms kV
Operating range	Ambient temperature				
Functional		-10		+70	$^{\circ}$ C
Storage		-40		+125	$^{\circ}$ C
Humidity				95	%R.H.

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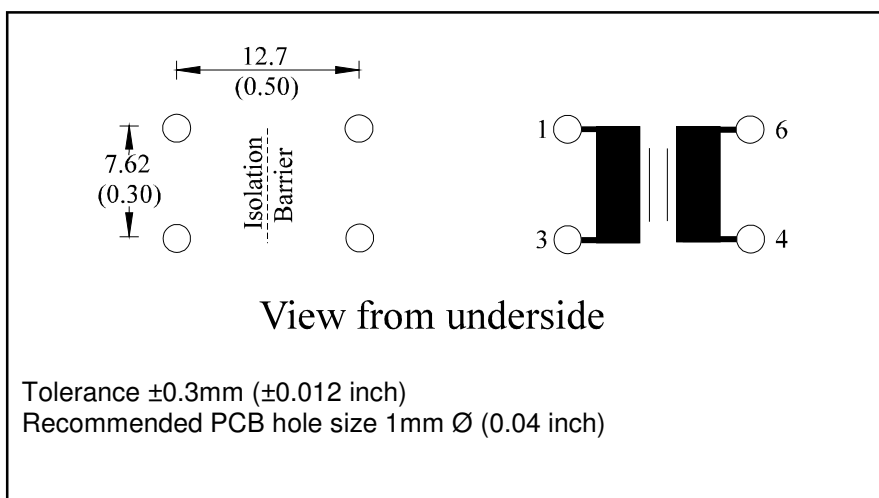
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Dimensions



Connections



Information

Construction

Dimensions are shown in millimetres (inches).
 Geometric centres of outline and pin grid coincide within a tolerance circle of 0.6mm \varnothing .
 Windings may be used interchangeably as primary or secondary.

Safety

Constructed in accordance with IEC 60950-1, EN60950-1, supplementary insulation, and UL 60950-1, reinforced insulation, 250Vrms maximum working voltage, flammability class V-0. Distances through solid insulation 0.4mm minimum.

Absolute Maximum Ratings

(Ratings of components independent of circuit)
 Short term isolation voltage (15s)
 4.6kV rms, 6.5kV DC

DC current
 100 μ A

Storage temperature
 -40 $^{\circ}$ C to +125 $^{\circ}$ C

Lead Temperature, 10s
 260 $^{\circ}$ C