

Features

- 12.6mm Seated height
- Reinforced isolation
- Vacuum encapsulated
- Compliant with IEC 60950-1
- Tested to 6.5kV DC isolation

Application

- Telecommunications
- Pick-off applications
- Calling Line Identification
- Instrumentation
- Voice Recording

Description

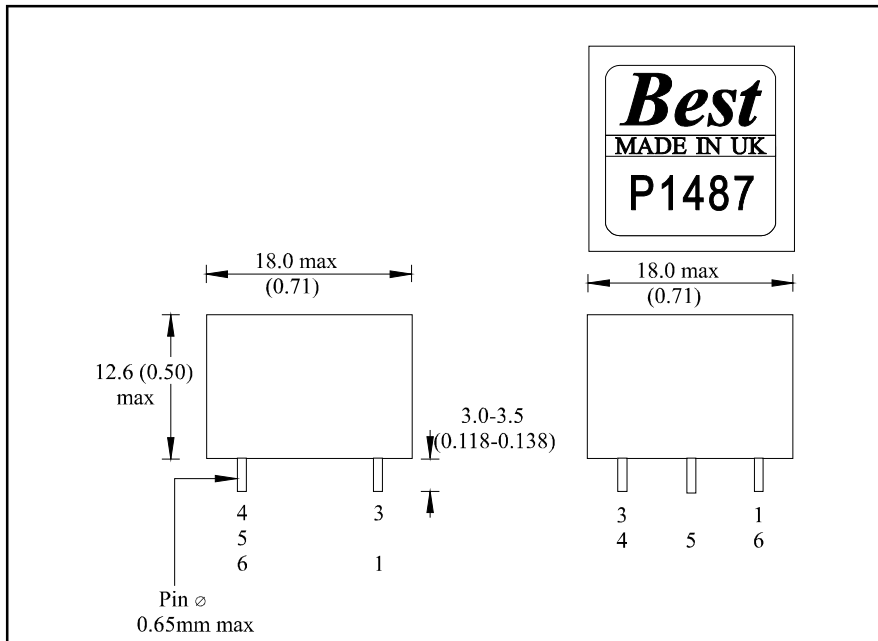
P1487 is a high impedance transformer for applications where high performance and safety isolation to the most exacting international standards are required in a compact case size. P1487 has a turns ration of 1.732:1 giving an impedance transformation of 3:1. P1487 is designed for "listening" applications

when placed across a line, presenting a very high impedance to minimize circuit loading.

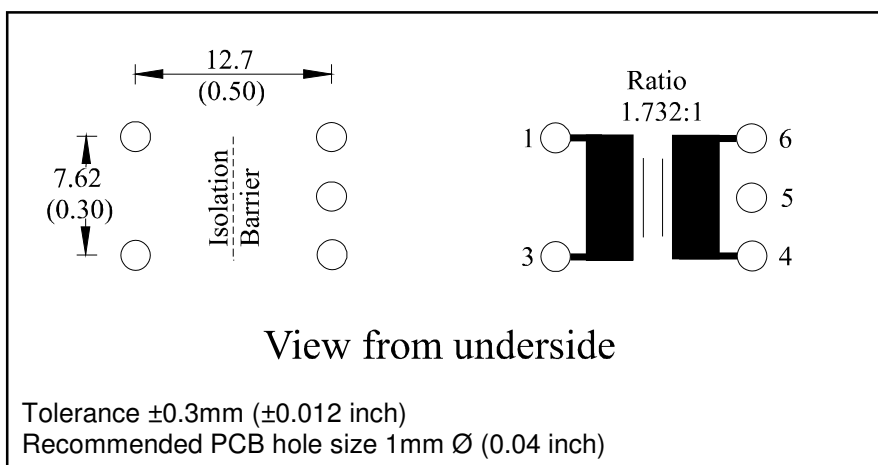
Specifications

Parameter	Conditions	Min	Typical	Max	Units
DC Resistance, R_{DC}	Sum of windings			1860	Ω
Leakage Inductance dL	Referred to pins 1-3	170		200	mH
Shunt Inductance L_p	-43 dBm 200Hz Pins 1-3	38		67	H
Shunt Loss R_p	-43 dBm 200Hz	70			k Ω
Self Capacitance C_1		13		17	pF
C_2		15		19	pF
Balance	DC - 5kHz Method TG25	50			dB
Input Impedance	200 Hz - 4kHz	20			k Ω
Voltage Isolation	50Hz	3-88			kV rms
	DC	5.5			kV
Operating range:	Ambient temperature				
Functional		-10		+70	$^{\circ}C$
Storage		-40		+125	$^{\circ}C$
Humidity				95	%R.H.

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

Notes

Caution: do not pass DC through windings. Telephone line current, etc. must be diverted using a choke or semiconductor line hold circuit.

Best
Windings Ltd

www.bestwindings.co.uk

©2007 The product numbers used are the trademarks of Best Windings Ltd.

November 2007

Best Windings Ltd, Viking Works,
Bucklesham Road, Kirton, Ipswich,
Suffolk, England. IP10 0NX
E-Mail: sales@bestwindings.co.uk
Tel: +44 (0) 1394 448 424
Fax: +44(0) 1394 448 430