

Line matching transformer.

600(Ω) - 140(Ω)

P1208

Features

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

Application

- Telecommunications
- V.22 bis modems
- Line matching
- Instrumentation
- Fax/modems

Description

P1208 is the transformer of choice in medium-speed applications where high performance coupled with high isolation is required at a most competitive price. At only 12.6mm high, P1208 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). P1208 is ideal for voice communications applications and data communications to V.22 bis (2400 bps) data rates. P1208 is specially

designed to be easily matched to both 600 Ω and complex impedance telephone lines, using a minimum of external components. P1208 is compliant with IEC 60950-1. Equipment incorporating P1208 is capable of approval worldwide. P1208 is supported by recommended matching circuit components to meet the requirements of most National Telephone System Operators.

Specifications

Parameter	Conditions	Min	Typical	Max	Units	
Insertion loss	f=2kHz			1.5	dB	
Frequency Response	LF - 3dB cutoff			50	Hz	
	HF - 3dB cutoff	10			kHz	
	200Hz - 4kHz			+0.2	dB	
Return loss	200Hz - 4kHz	18			dB	
Distortion	0dBm in line, 3rd harmonic f=450Hz		-72	-60	dBm	
Balance	DC - 5kHz Method TG25	80			dB	
Saturation	Excitation 50Hz, 250V rms Output Voltage across line			10	V rms	
				65	V peak	
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.	

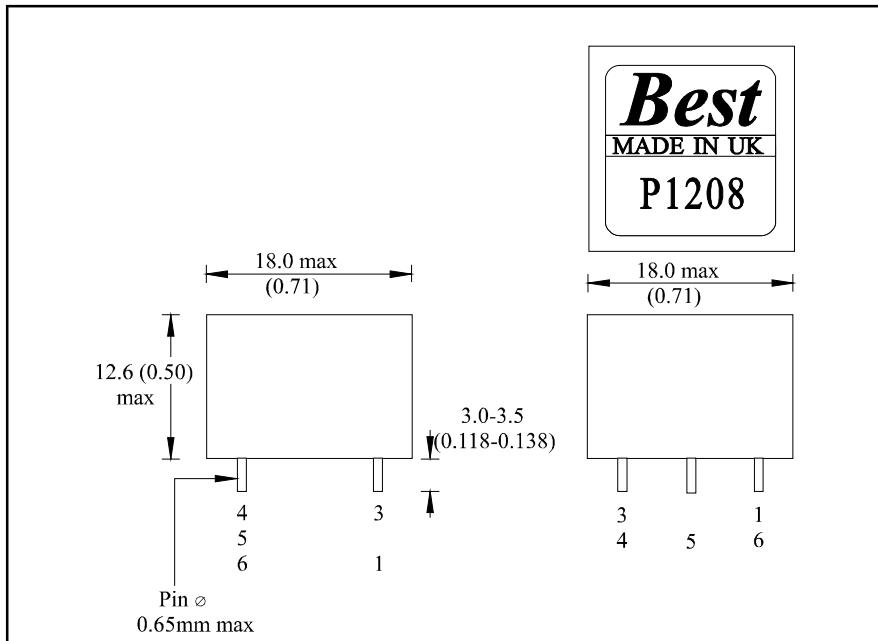
Best
Windings Ltd

www.bestwindings.co.uk

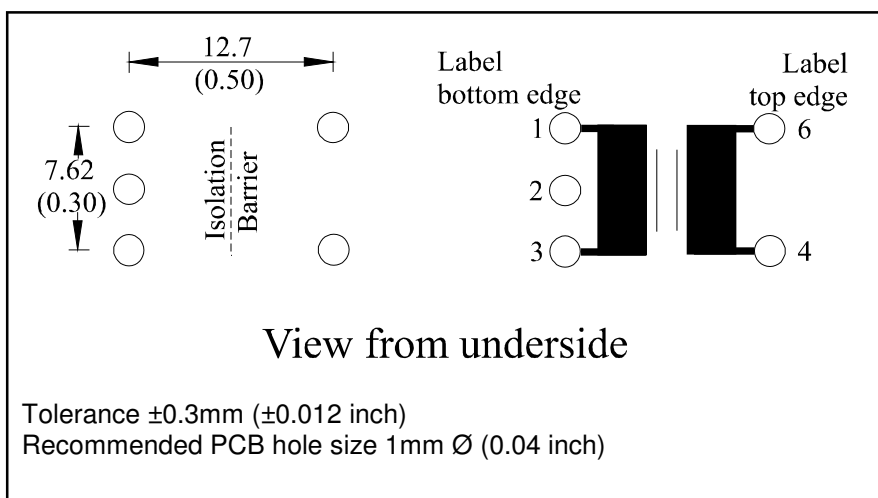
Best Windings Ltd, Viking Works,
Bucklesham Road, Kirton, Ipswich,
Suffolk, England. IP10 0NX
E-Mail: sales@bestwindings.co.uk
Tel: +44 (0) 1394 448 424
Fax: +44(0) 1394 448 430

P1208

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

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