

Features

- Vacuum encapsulated
- Compliant with IEC 60950-1
- Reinforced isolation

Application

- Power across barrier

Description

P2904 is a high isolation transformer for transferring power across a safety barrier. With suitable drive circuitry P2904 can supply in excess of 1 Watt across a reinforced isolation barrier.

Recommended drive frequency is from 40-100kHz. The transformer is intended for push-pull convertor operation with minimal DC current into the windings. A centre tap is provided on the "drive" winding for design versatility.

Specifications

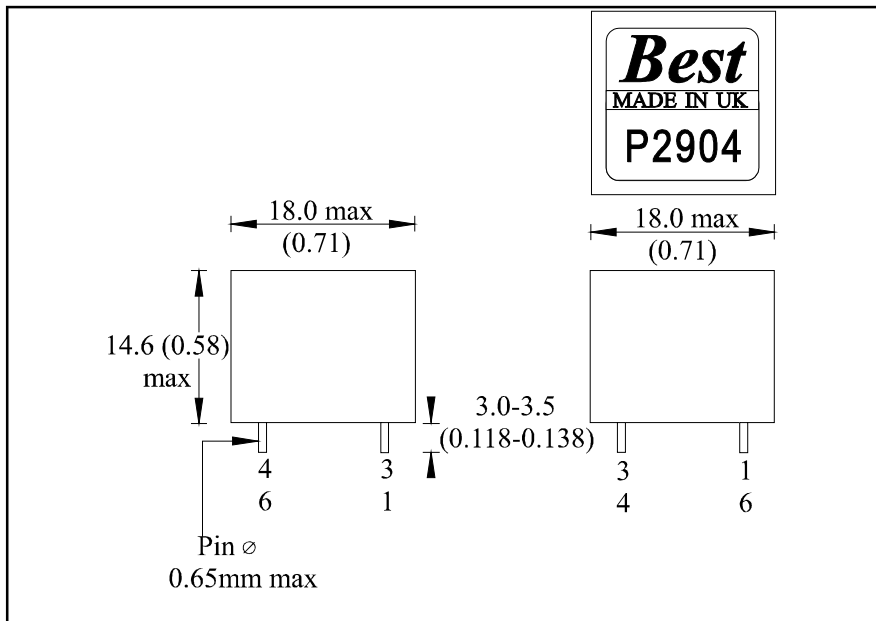
Parameter	Conditions	Min	Typical	Max	Units
Shunt Inductance Lp	50 kHz 100mV Pins 1-3	5			mH
Leakage Inductance	Referred to Pins 1-3		233		μH
Ratio			1:1.5		
Voltage Isolation	50Hz DC	3.88 5.5			kV rms kV
Operating range	Ambient temperature				
Functional		-10		+70	°C
Storage		-40		+125	°C
Humidity				95	%R.H.

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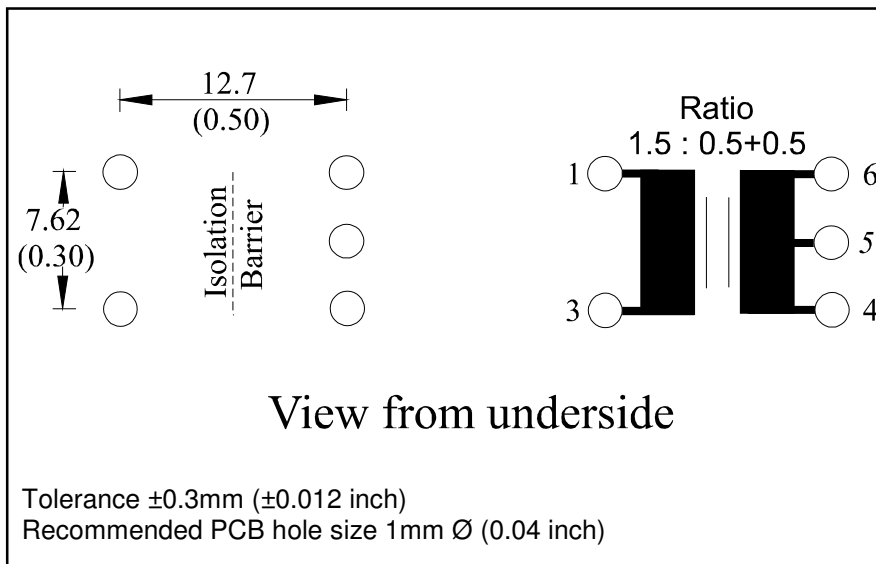
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Dimensions



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 .

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 (1s)
4000V rms

Storage temperature
-40°C to +125°C

Lead Temperature, 10s
260°C