

Features

- 12.6mm Seated height
- Vacuum encapsulated
- BS EN 60065 (1994) certified
- Tested to 6.5kV DC isolation

Application

- Telecommunications
- Data over mains
- Matching
- Instrumentation

Description

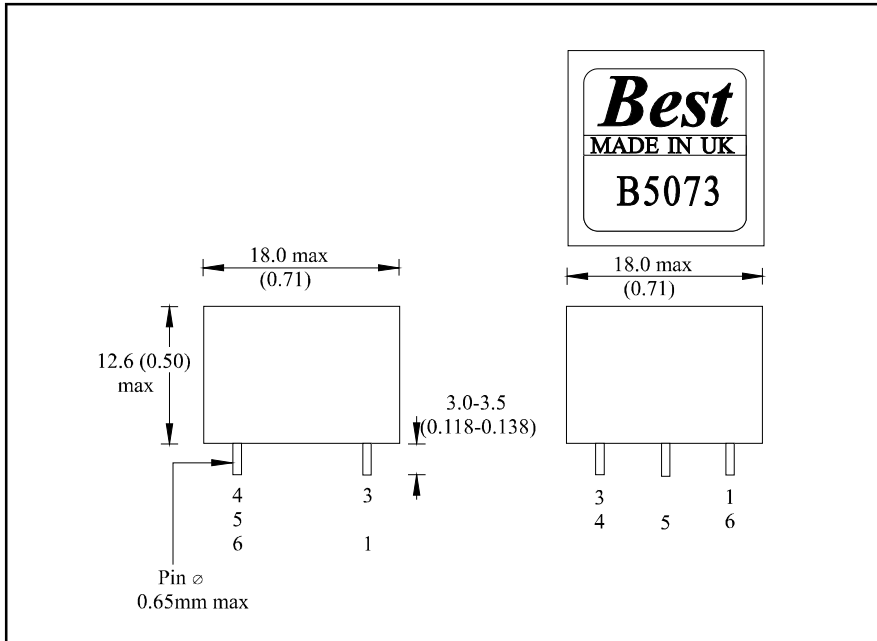
B5073 is designed for data communications over 230 V mains supplies, at frequencies up to 120 kHz (EN 50065-1 1991). It is intended to provide a match between very low values (e.g. power supply mains used as a signal carrier) and impedances which are more convenient for filter circuits, e.g. B5075, and connection to signal processing circuits. At only 12.6mm high, B5073

meets the highest international safety standards, being vacuum encapsulated and 100% tested to withstand 6.5kV DC (4.60kV rms).

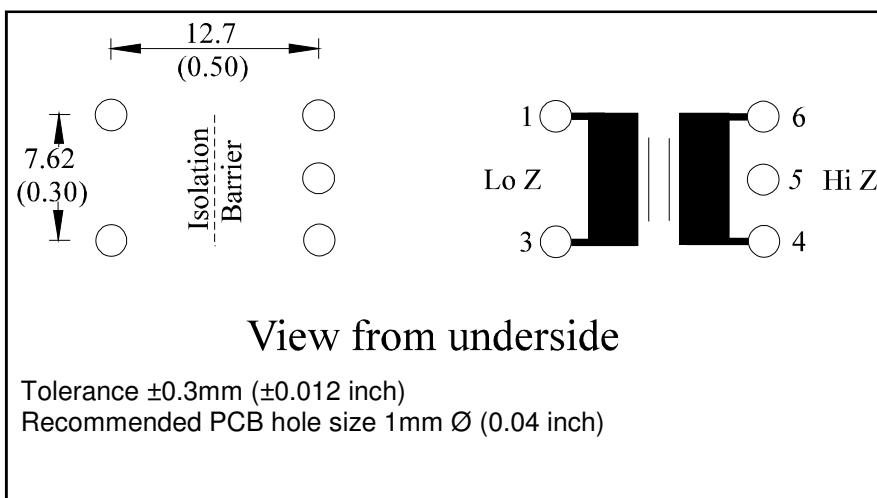
Specifications

Parameter	Conditions	Min	Typical	Max	Units	
Shunt inductance	Pins 1 - 3 1kHz 100mV		765		mH	
Leakage inductance	Pins 4 - 6 1 - 30kHz	17.9		21	mH	
DC Resistance	Pins 1 - 3	2.1		2.9	Ω	
	Pins 4 - 6	62 .		75	Ω	
Turns ratio	Pins 1-3 / 4-6		1 : 5.6			
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	$^{\circ}\text{C}$
		Storage	-40		+125	$^{\circ}\text{C}$
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 .

Safety

Constructed in accordance with IEC 60950-1:2001, EN 60950-1:2001 AND ul 60950-1, first Edition, reinforced insulation 250Vrms maximum working voltage, flammability class V-0. Distance through solid insulation 0.4mm minimum. Creepage and clearances in circuit are 9mm minimum where PCB pads do not exceed $\varnothing 3\text{mm}$.

Absolute Maximum Ratings

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

DC current
 100 μA

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

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

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