

Low profile line hold choke.

P1402

Features

- Industry Standard
- Low profile
- BS 6305 match compatible
- High reliability under adverse line transient conditions

Application

- Telecommunications
- V.22 bis modems
- Instrumentation
- Fax/modems
- Portable computers

Description

P1402 is a choke designed for application to standard 600Ω PSTN line terminations in cases where the height available is limited. It is intended for use with line transformer P1200 and has a low maximum seated height of only 14.6mm. Other transformers may be used but they may require different component values. The P1402 is designed with BS 6301 para. 4.4 in mind, which specifies certain overvoltage tests, and is therefore constructed using materials having adequate margins. Under conditions of very poor ventilation the

overvoltage test causes a winding temperature rise of 137°C. Under normal worst-case conditions the rise is 100°C after 2 hours continuous line hold. P1402 is ideal in situations where lightning strikes make semiconductors vulnerable. Choke P1402 can easily be arranged to meet BS 6305 Class (a). In view of this there is no point in considering Class (b) further in these notes although Class (b) can be met with a wide safety margin except for the restriction on modem line terminal impedance.

Specifications

Parameter	Conditions	Min	Typical	Max	Units
Insertion loss	N/A due to nature of terminations				
Frequency response	+3dB max tilt	200		4000	Hz
Return loss	200Hz - 4kHz	18			dB
Distortion	2nd & 3rd harmonic (DC-0 to 85mA)			70	dBm
Balance	DC - 5kHz Method TG25	80			dB
Shunt inductance	200 Hz -40dBm	0.8			H
Shunt loss R	200 Hz -40dBm	8			kΩ
DC resistance	20°C	185		200	Ω

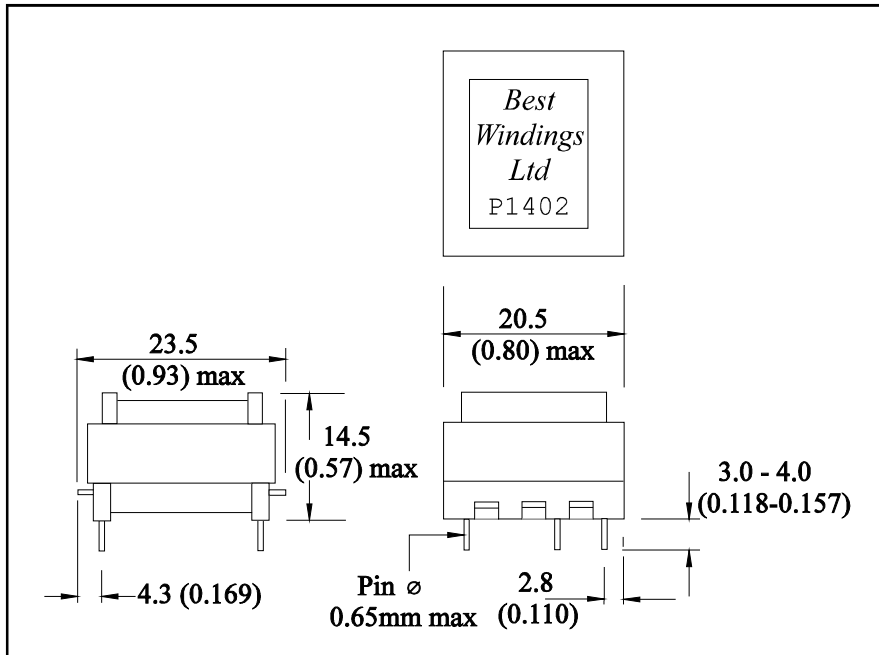
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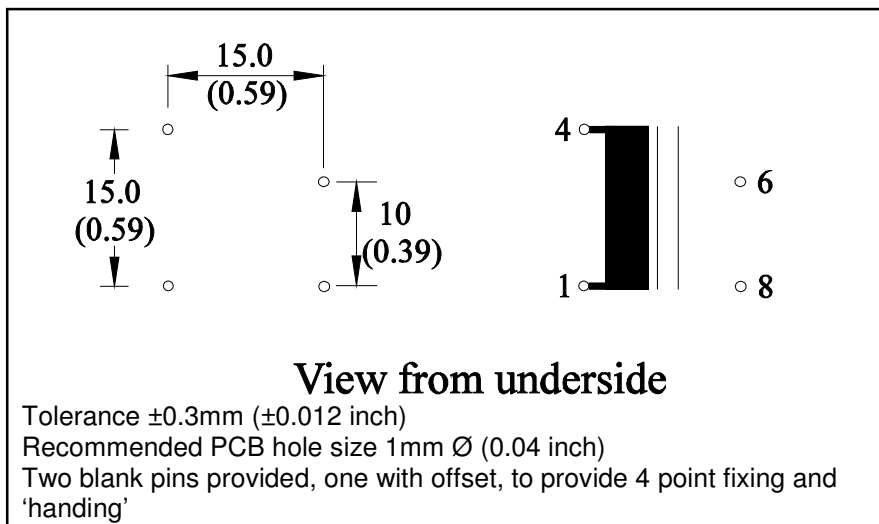
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P1402

Dimensions



Connections



Information

Construction

Dimensions are shown in millimetres (inches).
Open frame having the core bonded by epoxy resin.

Absolute Maximum Ratings

(Ratings of components independent of circuit)

DC current

85mA (meets inductance claim)

DC current

120 mA (endurance)

Storage temperature

-40°C to +125°C

Lead temperature, 10s

260°C

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