

DESCRIPTION

A high insulation resistance of up to 10T ohm with low dielectric constant is achieved by using a high insulation plastic for the coil form. The HI series' space requirements is only 34 x 7.5 x 7.9 mm.



APPLICATIONS

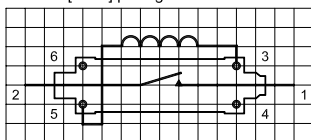
- Measurement equipment
- Test systems
- Control systems
- Medical equipment

FEATURES

- Rated power up to 10 Watts
- Switching up to 1000 VDC
- Breakdown up to 2500 VDC

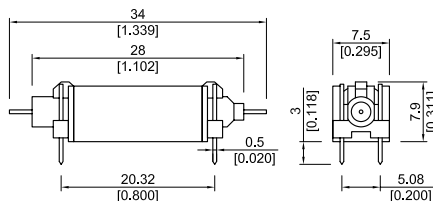
PIN OUT

View from top of component
2.54mm [0.10"] pitch grid



DIMENSIONS

All dimensions in mm [inch]



ORDER INFORMATION

Part Number Example

HI05 - 1A66

1A is the contact form

05 is the nominal voltage

66 is the switch model

Series	Nominal Voltage	Contact Form	Switch Model
HI	XX -	1 A	XX
Options	05		66, 75, 79

High Insulation Reed Relays

RELAY DATA

All Data at 20° C	Switch Model → Contact Form →	Switch 66 Form A			Switch 75 Form A			Switch 79 Form A			
Contact Ratings	Conditions	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Unit
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10			10			25	W
Switching Voltage	DC or peak AC			200			500			1000	V
Switching Current	DC or peak AC			0.5			0.5			1	A
Carry Current	DC or peak AC			1.25			1.0			2	A
Static Contact Resistance	w/ 0.5 V & 10mA			150			200			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200			200			200	mΩ
Insulation Resistance across Contacts	100 volts applied	10 ¹² 10 ¹³			10 ¹² 10 ¹³			10 ¹² 10 ¹³			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	0.2 2.5			1.5 2.5			2.5 2.5			kVDC
Operation Time incl. Bounce	at nominal voltage			0.5			0.5			0.5	ms
Release Time	Measured w/ no coil suppression			0.1			0.1			0.1	ms
Capacitance	at 10 kHz cross contact		0.2 3.0			0.4 3.0			0.4 3.0		pF
Life Expectancies											
Switching 5 V - 10 mA	DC only & <10 pF stray cap.		1000			500			1000		10 ⁶ Cycles
For other load requirements please see our life test section on P. 120.											
Environmental Data											
Shock Resistance	1/2 sinus wave duration 11 ms			50			30			50	g
Vibration Resistance	From 10 - 2000 Hz			20			10			50	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	-20		70	-20		70	°C
Stock Temperature	10°C/ minute max. allowable	-25		85	-25		85	-25		85	°C
Soldering Temperature	5 sec.			260			260			260	°C

COIL DATA

Contact Form	Switch Model	Coil Voltage		Coil Resistance			Pull-in Voltage	Drop-out Voltage	Nominal Coil Power
All Data at 20 °C		VDC		Ω			VDC	VDC	mW
		Nom.	Max.	Min.	Typ.	Max.	Max.	Min.	Typ.
1A	66 75	5	7.5	440	600	660	3.5	0.75	40
	79	5	7.5	126	140	154	3.5	0.75	179
* The pull-in / drop-out voltage and coil resistance will change at rate of 0.4% per °C.									