

**High Insulation
Reed Relays**

DESCRIPTION

A high insulation resistance of up to 1000 Gigaohm 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

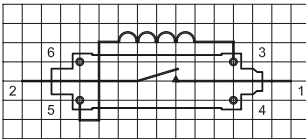
- Measurement equipment
- Test systems
- Control systems
- Medical equipment

FEATURES

- Rated power up to 25* Watts
- Switching up to 1000* VDC
- Breakdown up to 2500* VDC
- * on request

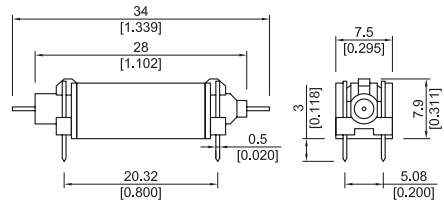
PIN OUT

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



DIMENSIONS

All dimensions in mm [inches]



ORDER INFORMATION

Series	Nominal Voltage	Contact Form	Switch Model
HI	XX -	1 A	XX
Options	05, 12, 24		66, 75

Part Number Example

HI12 - 1A66

12 is the nominal voltage
66 is the switch model

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RELAY DATA

All Data at 20° C	Switch Model → Contact Form →	Switch 66 Form A			Switch 75 Form A			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	
Contact Ratings	Conditions							
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10			10	W
Switching Voltage	DC or peak AC			200			500	V
Switching Current	DC or peak AC			0.5			0.5	A
Carry Current	DC or peak AC			1.25			1.0	A
Static Contact Resistance	w/ 0.5 V & 10mA			150			200	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200			200	mΩ
Insulation Resistance across Contacts	100 volts applied	10 ¹⁰ 10 ¹²			10 ⁹ 10 ¹²			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	225 2.5			1500 2.5			VDC
Operation Time incl. Bounce	at nominal voltage			0.5			0.5	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	at 10 kHz cross contact		0.2 3.0			0.4 3.0		pF
Life Expectancies								
Switching 5 V - 10 mA	DC only & <10 pF stray cap.		1000			500		10 ⁶ Cycles
For other load requirements please see our life test section on P. 112.								
Environmental Data								
Shock Resistance	1/2 sinus wave duration 11 ms			50			30	g
Vibration Resistance	From 10 - 2000 Hz			20			10	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	-20		70	°C
Stock Temperature	10°C/ minute max. allowable	-25		85	-25		85	°C
Soldering Temperature	5 sec.			260			260	°C

COIL DATA

Contact Form	Switch Model	Coil Voltage		Coil Resistance			Pull-in Voltage	Drop-out Volage	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
		12	16	2700	3000	3300	8.4	1.8	50
		24	30	5400	6000	6600	16.8	3.6	95
* The pull-in / drop-out voltage and coil resistance will change at rate of 0.4% per °C.									