

High Voltage Reed Relays for PCB Mounting

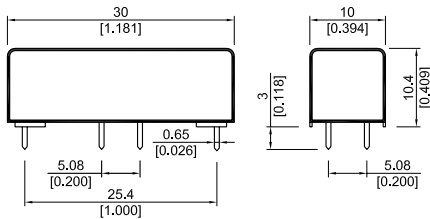


APPLICATIONS

- High voltage test systems
- Cable and in-circuit test equipment
- Battery operated high voltage test equipment

DIMENSIONS

All dimensions in mm [inches]



DESCRIPTION

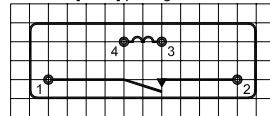
The LI series offers the maximum distance between coil and switch in the smallest possible housing.

FEATURES

- High coil resistance version available
- Breakdown voltage greater than 4.3 kVDC

PIN OUT

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



ORDER INFORMATION

SERIES	NOMINAL VOLTAGE	CONTACT FORM	SWITCH MODEL
LI	XX -	1A	XX
OPTIONS	05, 12, 24		66, 85

Part Number Example

LI12 - 1A66

12 is the nominal voltage
66 is the switch model

RELAY DATA

All data at 20 °C	Switch Model --> Contact Form -->	Switch 66 Form A			Switch 85 Form A			Units
		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			100	W
Switching Voltage	DC or peak AC			200			1000	V
Switching Current	DC or peak AC			0.5			1.0	A
Carry Current	DC or peak AC			1.25			2.5	A
Static Contact Resistance	w/ 0.5V & 50mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			200			200	mΩ
Insulation Resistance (100 Volts applied)	Across contacts Contact to coil	10 ¹⁰ 10 ¹²			10 ¹⁰ 10 ¹²			Ω
Breakdown Voltage	Across contacts Contact to coil	225 4.3 3.0			4000 4.3 3.0			VDC kVDC kVRMS
Operate Time, incl. Bounce	Measured w/ 100% overdrive			0.5			1.0	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	Across contacts Contact to coil		0.2 2.0			0.2 2.5		pF
Life Expectancies								
Switching 5 Volts@ 10mA	DC only & <10 pF stray cap.		1000			500		10 ⁶ Cycles
For other load requirements please see our life test section located on page 151.								
Environmental Data								
Shock Resistance	1/2 sine wave duration 11ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10 °C/ minute max. allowable	-20		70	-20		70	°C
Storage Temperature	10 °C/ minute max. allowable	-35		95	-35		95	°C
Soldering Temperature	5 sec. dwell			260			260	°C

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COIL DATA

CONTACT FORM	SWITCH MODEL	COIL VOLTAGE		COIL RESISTANCE			PULL-IN VOLTAGE		DROP-OUT VOLTAGE		NOMINAL COIL POWER
		VDC		Ω			VDC		VDC		mW
All data at 20 °C *		Nom.	Max.	Min.	Typ.	Max.	Min.	Max.	Min.	Max.	Typ.
		1A	66 85	5	7.5	180	200	220	0.85	3.5	0.75
12	16			612	680	748	1.9	8.4	1.8	8.3	210
24	30			1800	2000	2200	3.7	16.8	3.6	16.7	290

* The pull-in / drop-out voltages and coil resistance will change at the rate of 0.4% per °C.