

#### High Voltage Reed Relays for PCB Mounting

# **MEDER** electronic



# DESCRIPTION

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

# **APPLICATIONS**

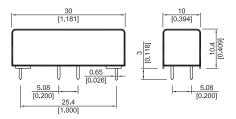
- · High voltage test systems
- · Cable and in-circuit test equipment
- · Battery operated high voltage test equipment

# **FEATURES**

- High coil resistance version available
- Breakdown voltage greater than 4.2 kVDC

#### **DIMENSIONS**

All dimensions in mm [inches]



### **PIN OUT**

Vlew from top of component 2.54mm [0.10"] pltch arld

zio mini [on o ] piton gita												
	r					5	$\sim$					
					4			3				
	1						7				2	

# **ORDER INFORMATION**

#### **Part Number Example**

LI12 - 1A66

**12** is the nominal voltage **66** is the switch model

Series	Nominal Voltage	Contact Form	Switch Model
LI	XX -	1 A	XX
Options	05, 12, 24		66, 85

LI Series

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# **RELAY DATA**

All Data at 20° C	Switch Model $\rightarrow$ Contact Form $\rightarrow$	-	vitch <sup>i</sup> orm		-	vitch <sup>i</sup> orm		
Contact Ratings	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
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	А
Carry Current	DC or peak AC			1.25			2.5	А
Static Contact Resistance	w/ 0.5 V & 10mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50 mA 1.5 ms after closure			200			200	mΩ
Insulation Resistance (100 Volts applied)	Across contacts Contact to coil	10 <sup>10</sup> 10 <sup>12</sup>			10 <sup>10</sup> 10 <sup>12</sup>			Ω
Breakdown Voltage	Voltage applied for 60 sec. min.	225 4.25 3.0			4200 4.25 3.0			VDC kVDC kVRMS
Operation Time incl. Bounce	At nominal voltage			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 V - 10 mA	DC only & <10 pF stray cap.		1000			500		10 <sup>6</sup> Cycles
For other load requirements plea	ase see our life test section on P. 112.							
Environmental Data								
Shock Resistance	1/2 sinus wave duration 11 ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	-20		70	°C
Stock Temperature	10°C/ minute max. allowable	-35		95	-35		95	°C
Soldering Temperature	5 sec. dwell			260			260	°C

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Contact Form	Switch Model	Coil Voltage		Coil Resistance ± 10%			Pull-in Voltage	Drop-out Volage	Nominal Coil Power
All Data at 20 °C		VDC		Ω			VDC	VDC	mW
		Nom.	Max.	Min.	Тур.	Max.	Max.	Min.	Тур.
1A	66	5	7.5	405	450	495	3.5	0.75	55
		12	16	1080	1200	1320	8.4	1.8	119
		24	30	3240	3600	3960	16.8	3.6	159
1A		5	7.5	180	200	220	3.5	0.75	125
	85	12	16	612	680	748	8.4	1.8	210
		24	30	1800	2000	2200	16.8	3.6	290

# **COIL DATA**