MEDER electronic

Miniature Reed Relays for High Frequency Switching

DESCRIPTION

The LP series of miniature Reed Relays offers the ideal solution for high density, high frequency switching. With a coaxial shield the LP series is capable of switching signals up to 1 GHz. Using only high reliability Reed Switches, one is insured of long life when switching low level signals.

FEATURES

- · Versions with 1 Form A or 1 Form C available
- · Electrostatic and coaxial shield options



CHARACTERISTICS

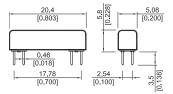
- Sealed with PU resin
- Magnetic shield
- High reliability
- Very small housing

APPLICATIONS

- RF communications
- Video switching
- ATE

DIMENSIONS

All dimensions in mm [inches]



ORDER INFORMATION

Part Number Example

LP12 - 1A66 - 80V

12 is the nominal voltage1A is the contact form66 is the switch model80 is the pin outV is the option

Relay Series	Nominal Voltage	Contact Form	Switch Model	Pin Out		
LP	XX -	ХХ	XX -	ХХ	x	
Ontiono	05, 12	1A	66	80	U, V, W	
Options		1C	90	91	U	

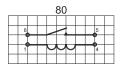
LP Series

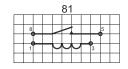


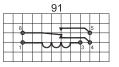
Miniature Reed Relays for High Frequency Switching

PIN OUT

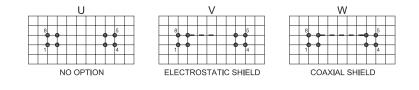
View from top of component 2.54mm [0.10"] pitch grid







OPTIONS



COIL DATA

Contact Form	Switch Model	Coil Voltage		Coil Resistance			Pull-in Voltage	Drop-out Voltage	Nominal Coil Power	
AILI	Data	VDC		Ω			VDC	VDC	mW	
at 20	* 3° (Nom.	Max.	Min.	Тур.	Max.	Max.	Min.	Тур.	
	66	5	7.5		230		3.5	0.75	110	
1A		12	16		950		8.4	1.8	155	
10	90	5	7.5		190		3.5	0.75	135	
10		12	16		770		8.4	1.8	190	
* The pull-in / drop-out voltages and coil resistance will change at the rate 0,4% / °C										

LP Series

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RELAY DATA

All Data at 20° C	Switch Model \rightarrow Contact Form \rightarrow			Switch 90 Form C				
Contact Ratings	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10			3	w
Switching Voltage	DC or peak AC			200			175	V
Switching Current	DC or peak AC			0.5			0.25	А
Carry Current	DC or peak AC			1.25			1.2	А
Static Contact Resistance	w/ 0.5 V & 10mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200			250	mΩ
Insulation Resistance across Contacts	Across Contact Coil - Contact	10 ¹⁰ 10 ¹⁰			10 ⁹ 10 ¹⁰			Ω
Breakdown Voltage across Contact	Across Contact Coil - Contact	200 800			200 800			VDC
Operation Time incl. Bounce	At nominal voltage			0.5			0.7	ms
Release Time	with no coil suppression			0.1			1.5	ms
Capacitance	Across Contact Coil - Contact		0.2 2.5			1.0 2.5		pF
Life Expectance								
Switch Voltage 5V - 10 mA	DC <10 pF stray cap.		1000			100		10 ⁶ Cycles
For other load requirements, s	see test section on Page 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	-25		85	-25		85	°C
Soldering Temperature	5 sec.			260			260	°C