High Frequency SIL Reed Relays

DESCRIPTION

Single-In-Line Reed Relays reduce the required space to a minimum. Requiring only half the PCB area of the DIP or DIL series, the SIL relays offer all the advantages of Reed Technology.

APPLICATIONS

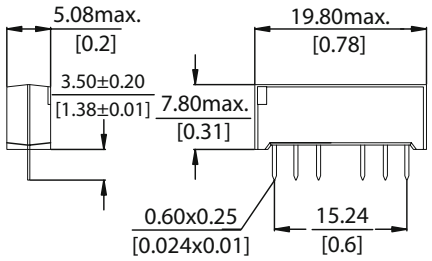
- In-circuit-tester
- High voltage cable tester
- Tele-communication
- Alarm systems
- Measure and control systems

FEATURES

- UL certified
- Insulation voltages up to 4.25 kVDC
- Coax screen for Z=50 Ohm Impedance
- Switching frequency up to 1.5 GHz

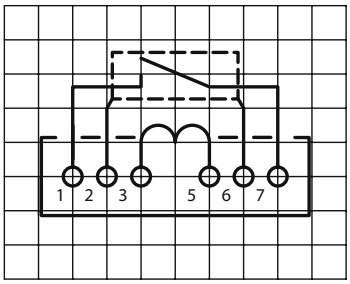
DIMENSIONS

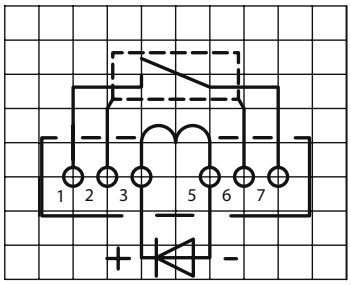
All dimensions in mm [inch]



PIN OUT

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





with Diode

RELAY DATA

All Data at 20° C	Switch Model → Contact Form →	Switch 72 Form A			
Contact Ratings	**Conditions**	**Min.**	**Typ.**	**Max.**	**Units**
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			15	W
Switching Voltage	DC or peak AC			200	V
Switching Current	DC or peak AC			1.0	A
Carry Current	DC or peak AC			1.25	A
Static Contact Resistance	w/ 0.5 V & 10mA			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200	mΩ
Insulation Resistance across Contacts	Across Contact Coil - Contact	10^{12} 10^{12}	10^{13}		Ω
Breakdown Voltage across Contacts	Across Contact Coil - Contact	250 1500			VDC
Operation Time incl. Bounce	at nominal voltage			0.7	ms
Release Time	with no coil suppression			0.1	ms
Capacitance	Across Contact Coil - Contact		0.2 2.0		pF
Life Expectance					
Switch Voltage 5V - 10 mA	DC <10 pF stray cap.		1000		10^6 Cycles
For other load requirements, see test section on P. 112					
Environmental Data					
Shock Resistance	1/2 sinus wave for 11 ms			50	g
Vibration Resistance	10 - 2000 Hz			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	°C
Stock Temperature	10°C/ minute max. allowable	-35		95	°C
Soldering Temperature	5 sec.			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
All Data at 20 °C		VDC		Ω			VDC	VDC	mW
		Nom.	Max.	Min.	Typ.	Max.	Max.	Min.	Typ.
1A	72	5	7.5	450	500	550	3.5	0.75	50
		12	16	900	1000	1100	8.4	1.8	145
* The pull-in / drop out voltages and coil resistance will change at the rate of 0,4 % / °C.									

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Part Number Example

SIL05 - 1A72 - 74L

12 is the nominal voltage
1A is the contact form
72 is the pin-out
L is the option

Series	Nominal Voltage	Contact Form	Switch Model	Pin Out	Options
SIL	**XX -**	**1 X**	**XX -**	**XX**	**X**
Option	05, 12	1A	72	74	L, D

OPTIONS

L = No option
D = With diode and no magnetic shield