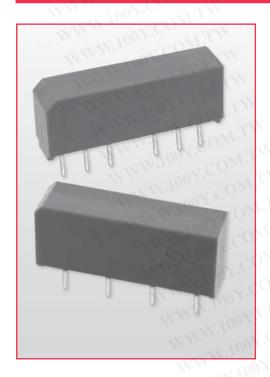
9000 Series / Molded SIP Reed Relays



High Performance SIP Reed Relays

The SIP relay is the industry standard when high reliability and consistent performance are desired in a compact package. The 9001 and 9002 are high performance relays ideally suited for Automatic Test Equipment, Instrumentation, RF and Telecommunications applications. The specification tables allow you to select the appropriate relay for your application.

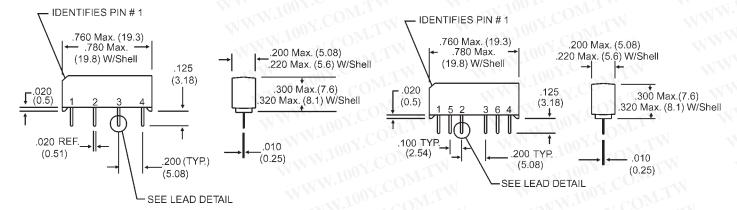
Series Features

- High Insulation Resistance 10^{12} Ω minimum (10^{13} Ω typical)
- High reliability, hermetically sealed contacts for long life (tested to 1 Billion Operations)
- High dielectric strength available, consult factory
- High speed switching compared to electromechanical relays
- Molded thermoset body on integral lead frame design
- Coaxial Shield for 50 Ω impedance and switching of fast rise time digital pulses 9002 only
- Optional Coil Suppression Diode protects coil drive circuits
- UL File # E67117, CSA File # LR 28537

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

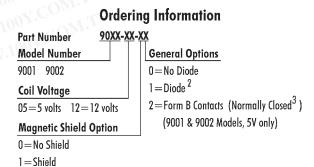
Model 9001

Model 9002



Dimensions in Inches (Millimeters)





9000 Series / Molded SIP Reed Relays

Model Number		9001 2	9002 2	
Parameters	Test Conditions	Units	4 Pin SIP	6 Pin SIP
OIL SPECS.				
om. Coil Voltage Iax. Coil Voltage oil Resistance perate Voltage	+/- 10%, 25° C Must Operate by	VDC VDC Ω VDC - Max.	5 12 6.5 15.0 500 1000 3.75 9.0	5 12 6.5 15.0 350 750 3.75 9.0
elease Voltage	Must Release by	VDC - Max. VDC - Min.	0.4 1.0	0.4 1.0
ONTACT RATINGS	Mast release by	W W	001.	TW
witching Voltage witching Current arry Current ontact Rating ife Expectancy-Typical ¹ tatic Contact esistance (max. init.)	Max DC/Peak AC Resist. Max DC/Peak AC Resist. Max DC/Peak AC Resist. Max DC/Peak AC Resist. Signal Level 1.0V, 10.0mA 50mV, 10mA	Volts Amps Amps Watts x 10 ⁶ Ops.	200 0.5 1.5 10 1000	200 0.5 1.5 10 1000
ynamic Contact esistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	ΝΩ	0.200	0.200
ELAY PECIFICATIONS	MAM.100X.COW	TW.	WWW.10	OY.COM
sulation Resistance ninimum) apacitance - Typical	Between all Isolated Pins at 100V, 25°C, 40% RH No Shield	Ω pF	10^{12} 0.7	10 ¹²
cross Open Contacts	Shield Floating Shield Guarding	pF pF	WWW	0.8 0.1
pen Contact to Coil	No Shield Shield Floating Shield Guarding	pF pF pF	1.4 - -	1.4 0.5
ontact to Shield	Contacts Open, Shield Floating	pF	- 1	1.4
ielectric Strength ninimum)	Between Contacts Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC VDC/peak AC	300 - 1500	300 1500 1500
perate Time - including ounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.35	0.35
elease Time - Typical	Zener-Diode Suppression ⁴	msec.	0.1	0.1
ounce - Typical	30 Hz Square Wave	.100 r.	01 30 .C	OW.IV

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Dot stamped on relay refers to pin #1 Grid = .1"x.1" (2.54mm x 2.54mm)

Top View:

Notes:

¹Consult factory for life expectancy at other switching loads

²Optional diode is connected to pin #2 (+) and pin #3(-). Correct coil polarity must be observed. ³9000 series part numbers designated with Form B contacts, these relays contain bias magnets. Correct coil polarity must be observed.

⁴Consists of 56V Zener diode and 1N4148 diode in series, connected in parallel with coil.

Environmental Ratings:

Storage Temp: -35°C to +100°C; Operating Temp: -20°C to +85°C Solder Temp: 270°C max; 10 sec. max

The operate and release voltage and the coil resistance are specified at 25°C. These values vary by approximately 0.4% /°C as the ambient temperature varies.

Vibration: 20 G's to 2000 Hz; Shock: 50 G's