Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

9270 SERIES -40°C TO 125°C SURFACE MOUNT REED RELAYS

9270 Series Surface Mount Reed Relays for -40°C to 125°C Operation

Based on the popular 9290 SMD Relay, the 9270 Series offers stable operation from -40°C up to 125°C. The 9270 is ideally suited for high temperature applications in the Automated Test Equipment, Instrumentation and Telecom markets where wide range temperal testing is required.

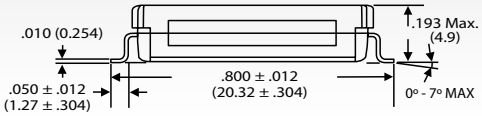
9270 Series Features

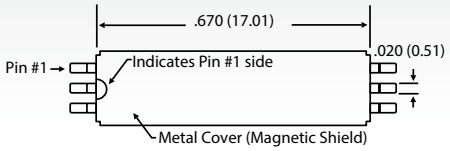
- Stable operation from -40 to 125°C
- High Insulation Resistance - $10^{12}\Omega$ minimum ($10^{13}\Omega$ typical)
- High reliability, hermetically sealed contacts for long life
- Minimum Footprint .140" Sq. (3.5mm Sq.)
- 50Ω Co-axial Shield for RF and Fast Rise Time Pulse switching
- External Magnetic Shield
- Tape & Reel available
- RoHS compliant

DIMENSIONS

in Inches (Millimeters)

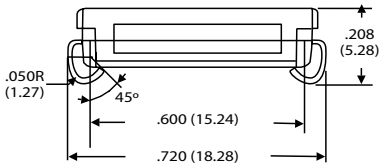
Gull Wing[2]

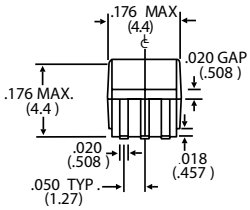




Top View

J-Lead[2]





End View

Ordering Information

9270-XX-XX*

Coil Voltage	Lead Style
05=5 volts	00 = Gull Wing
12=12 volts	20 = J-Lead

*Add suffix "TR" for Tape & Reel

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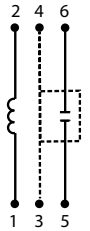
MODEL NUMBER			9270
Parameters	**Test Conditions**	**Units**	**1 Form A 50 Ω Coaxial**
COIL SPECS.			
Nom. Coil Voltage		VDC	5 12
Max. Coil Voltage		VDC	6.5 15.0
Coil Resistance	+/- 10%, 25° C	Ω	100 400
Operate Voltage	Must Operate by	VDC - Max.	2.5 6.7
Release Voltage	Must Release by	VDC - Min.	0.4 1.0
CONTACT RATINGS			
Switching Voltage	Max DC/Peak AC Resist.	Volts	200
Switching Current	Max DC/Peak AC Resist.	Amps	0.5
Carry Current	Max DC/Peak AC Resist.	Amps	1.5
Contact Rating	Max DC/Peak AC Resist.	Watts	10
Life Expectancy-Typical[1]	Signal Level 1.0V, 10mA	x 10^6 Ops.	1000
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.150
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.200
RELAY SPECIFICATIONS			
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10^{12}
Capacitance - Typical Across Open Contacts	No Shield Shield Floating Shield Guarding	pF pF pF	- 1.0 0.2
Open Contact to Coil	No Shield Shield Floating Shield Guarding	pF pF pF	- 2.0 0.4
Contact to Coil	Contacts Open, Shield Floating	pF	2
Dielectric Strength (minimum)	Between Contacts Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC VDC/peak AC	250 500 500
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.40
Release Time - Typical		msec.	0.10

Top View:
Dot stamped on top of relay refers to pin #1 location



Notes:

[1] Consult factory for life expectancy at other switching loads.

[2] Surface mount component processing temperature: 500°F / 260°C max for 1 minute dwell time. Temperature measured on leads where lead exits molded package.

Environmental Ratings:

Storage Temp: -40°C to +125°C; *Operating Temp:* -40°C to +125°C
All electrical parameters measured at 25°C unless otherwise specified.
Vibration: 20 G's to 2000 Hz; *Shock:* 50 G's

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