



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!



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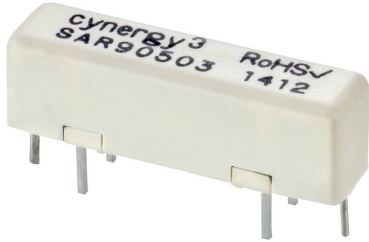
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





S Series

High Voltage relays

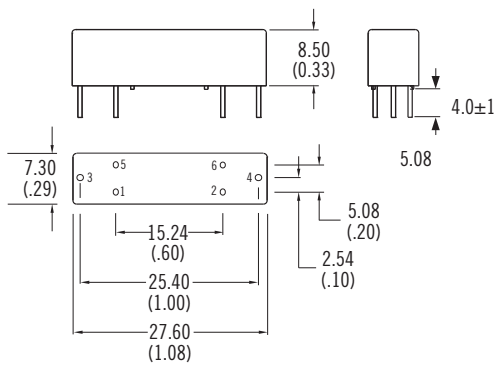


The S series relay was developed for the high voltage ATE market, where printed circuit board space is at a premium. The S series high voltage relay offers a 3kV or 5kV* isolation performance in a 30mm package.

Low contact resistance, through the use of Rhodium contact reed switches, makes the S series suitable for many high voltage applications at DC and low frequency, where performance and reliability are paramount.

Mechanical Dimensions

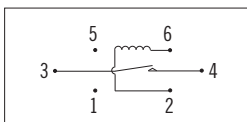
All dimensions are in Millimetres (inches)



PIN SIZE

PINS 1, 2, 5 & 6 0.7 Square (0.025")
PINS 3 & 4 0.8 (0.031") dia.

Relay Circuit Diagram



(Viewed from Underside)

Pin 1 is top left, when viewed from above, with respect to part marking

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ISO9001 CERTIFIED

S Series 2016

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- Compact footprint
- Designed specifically for High Voltage ATE
- Rhodium contacts for Low Contact Resistance
- 3kV or 5kV* Isolation between contacts and 5kV isolation between contacts and coil
- Excellent lifetime characteristics

Contact Specification	Unit	Condition	3kV SPNO	5kV SPNO				
Contact Material			Rhodium	Rhodium				
Isolation across contacts	kV	DC or AC peak	3	5*				
Switching Power Max.	W		10	10				
Switching Voltage Max.	V	DC or AC peak	20	20				
Switching Current Max.	A	DC or AC peak	0.5	0.5				
Carry Current Max.	A	DC or AC peak	1.5	1.5				
Capacitance across contacts	pF	coil to screen grounded	<0.1	<0.1				
Lifetime operations		dry switching	10 ⁹	10 ⁹				
		10W switching	10 ⁶	10 ⁶				
Contact Resistance	mΩ	max (typical)	80 (30)	80 (30)				
Insulation Resistance	Ωmin	(typical)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)				
*DC only, Pin 3 at high voltage								
Coil Specification at 20°C			5V	12V	24V	5V	12V	24V
Must Operate Voltage	V	DC	3.7	9	20	3.7	9	20
Must Release Voltage	V	DC	0.5	1.25	4	0.5	1.25	4
Operate Time	ms	diode fitted	1.0	1.0	1.0	1.0	1.	10
Release Time	ms	diode fitted	0.5	0.5	0.5	0.5	0.5	0.5
Resistance	Ω		140	600	1000	140	600	1000

Relay Specification

Isolation contact/coil	kV	5	5
Insulation resistance contact to all terminals	Ωmin (typical)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)
Environmental			
Operating Temp range	°C	-20 to +70	-20 to +70
Weight	gm	3.1	3.1

Please refer to this document for circuit design notes:-

<http://www.cynergy3.com/blog/application-notes-reed-relays-0>

Part Numbering System

Reed Switch Size

Contact Form A=SPNO

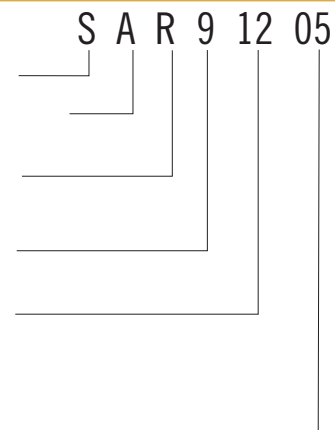
Contact Material
R=Rhodium,

Moulding Ref. No.

Coil Voltage
05=5Vdc, 12=12Vdc,
24=24Vdc

Isolation between
Contacts

3=3kV, 5=5kV



www.cynergy3.com