

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

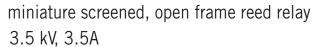
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







#### 4 series







- 3.5A RF at 1-30MHz
- 3.5kV Isolation
- Contacts Form A, B or Latching
- Long Lifetime

A highly flexible, low cost package for RF applications in the 1-30MHz band. The use of vacuum reed switches with rhodium contacts offers high isolation voltages, low contact resistance and long operating lifetime. Additional RF screening is available to further enhance RF performance for more demanding applications.

Available as Form A (SPNO), Form B (SPNC) or latching (bistable) contact configurations with switch connections via either PCB or flying lead.

Contact	Units	Conditions	Form A			Form B			Latching	
Contact Material			Rhodium		Rhodium		Rhodium			
Isolation across contacts	kV	DC or AC peak	3		3		3.5			
Max. carry current	А	DC or AC rms	3.5*		3.5*		1.5			
Max. switching power	W		10		10		10			
Max. switching voltage	٧	DC or AC peak	20		20		20			
Max. switching current	А	DC or AC peak	0.5		0.5		0.5			
Capacitance across contacts	pF	coil/screen grounded	<0.1		<0.1		<0.1			
Lifetime	operations	dry switching	10 <sup>9</sup>		10 <sup>9</sup>		10 <sup>9</sup>			
Lifetime	operations	10W switching	108		108		108			
Contact Resistance	m0hms	maximum (typical)	80 (30)		80 (30)		80 (30)			
Insulation Resistance	Ohms	minimum (typical)	1010 (1013)		1010 (1013)		1010 (1013)			
ESR at 30MHz (no screen)	m0hms	typical	95 @ 3A rms		95 @ 3A rms		200 @ 1.5A rms			
ESR at 30MHz (part screen)	m0hms	typical	80 @ 3A rms		80 @ 3A rms		180 @ 1.5A rms			
Coil			5V	12V	24V	5V	12V	24V	5V	12V
Must Operate	V	DC, 20°C	3.5	8	15	3.5	8	15	3	7
Must Release	V	DC, 20°C	1	2	4	1	2	4	N/A	N/A
Min Pulse Length	ms		N/A	N/A	N/A	N/A	N/A	N/A	2.0	2.0
Operate Time	ms		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Release Time	ms	diode ftted	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
Resistance	Ohms	20°C	70	380	1500	65	350	1200	188	500
Construction										
Isolation contact to coil	kV	DC or AC peak	3		3		3.5			
Capacitance contact to all other terminals	pF	Contacts open	<1.0		<1.0		<1.0			
Capacitance contact to all other terminals	pF	Contacts closed	<1.5		<1.5		<1.5			
Environmental										
Operating temperature range	°C	Limited Current	-40 to +100*		-40 to +100*		-40 to +100			
Storage temperature range	°C		-40 to +125		-40 to +125		-40 to +125			
Weight	gm	typical	3.5		4.2		3.1			

<sup>\*</sup>see graphical data overleaf

# Reedswitch Size: S S A R 4 05 S U Contact Form A: Form A, B: Form B, L: Latching Series Number Coil Voltage 05: 5V, 12:12V, 24:24V Screening S: Screened, N: Unscreened Contact Pin Orientation D: PCB, U: Flying Lead

<u>Please refer to this document for circuit design notes:-</u> http://www.cynergy3.com/blog/application-notes-reed-relays-0

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com
Web: www.cynergy3.com

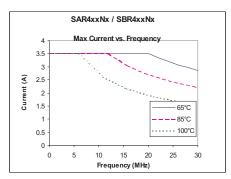
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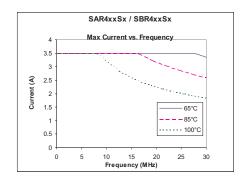
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#### 4 series

## miniature screened, open frame 3.5 kV, 3.5A



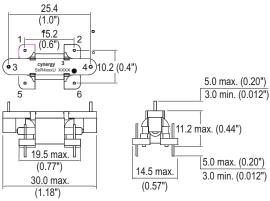




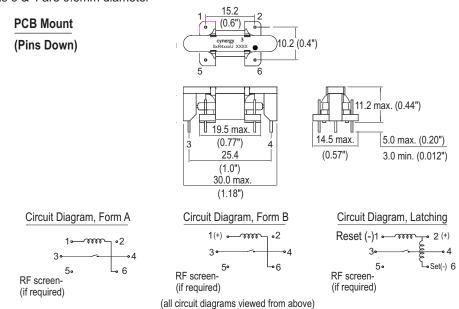
#### **Mechanical Dimensions**

All dimensions are in millimeters (inches)

Flying Lead (Pins Up)



Pins 1, 2, 5 & 6 are 0.635mm square and require 0.9mm +/- 0.05m diameter holes Pins 3 & 4 are 0.8mm diameter



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

Email:sales@cynergy3.com