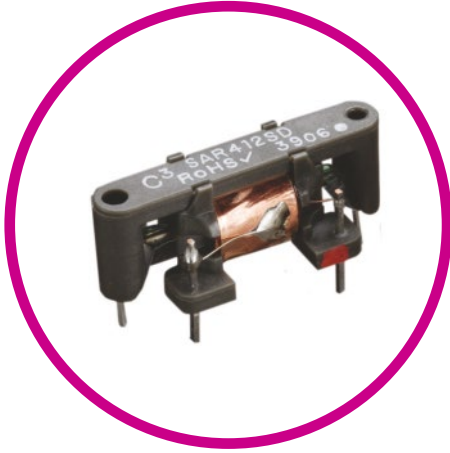




| 4 SERIES

MINIATURE SCREENED OPEN FRAMED REED RELAY 3.5 KV, 3.5A



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.

Features

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



SPECIFICATIONS

Contact	Unit	Condition	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	A	DC or AC rms	3.5*			3.5*			1.5	
Max. switching power	W		10			10			10	
Max. switching voltage	V	DC or AC peak	20			20			20	
Max. switching current	A	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 ⁹			10 ⁹			10 ⁹	
Lifetime	operations	10W switching	10 ⁸			10 ⁸			10 ⁸	
Contact Resistance	mOhms	maximum (typical)	80 (30)			80 (30)			80 (30)	
Insulation Resistance	Ohms	minimum (typical)	10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)	
ESR at 30MHz (no screen)	mOhms	typical	95 @ 3A rms			95 @ 3A rms			200 @ 1.5A rms	
ESR at 30MHz (part screen)	mOhms	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 fitted	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

Distributor



amSTECHNOLOGIES
where technologies meet solutions

info@amstechnologies.com
www.amstechnologies-webshop.com

Contact us



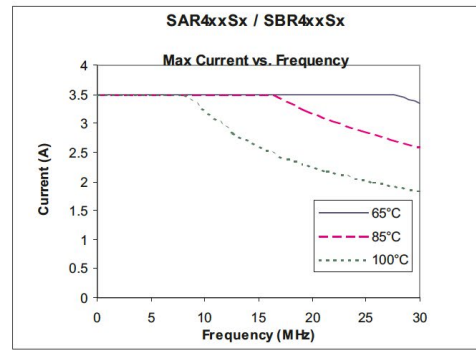
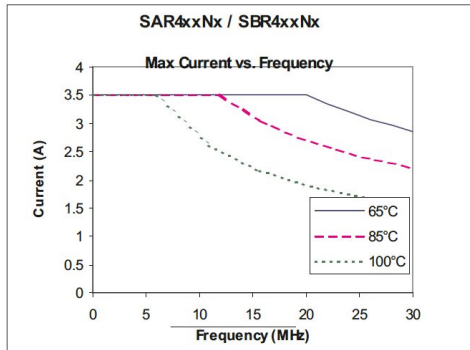
Contact	Unit	Condition	Form A	Form B	Latching
Construction					
Isolation contact to coil	kV	DC or AC peak	3	3	3.5
Capacitance contact to all other terminals	pF	Contacts open	<1.0	<1.0	<1.0
Capacitance contact to all other terminals	pF	Contacts closed	<1.5	<1.5	<1.5
Environmental Conditions					
Operating 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

*see graphical dimensions overleaf.

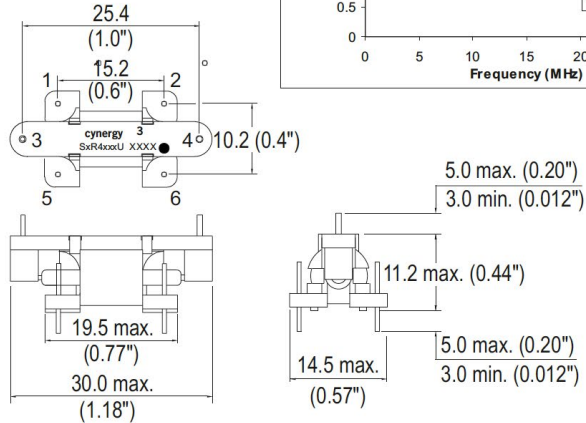


DIMENSIONS

All dimensions are in millimeters.

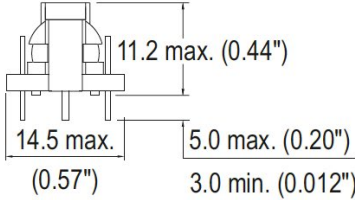
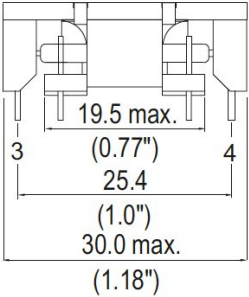
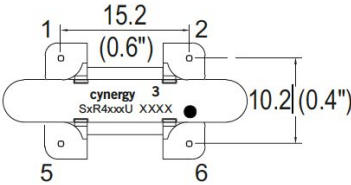


**Flying Lead
(Pins Up)**

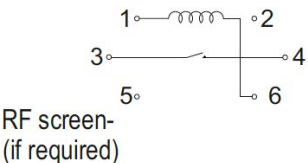


Pins 1, 2, 5 & 6 are 0.635mm square and require 0.9mm +/- 0.05mm diameter holes
Pin 3 & 4 are 0.8mm diameter.

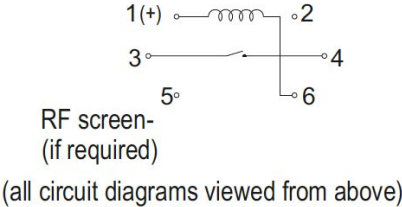
**PCB Mount
(Pins Down)**



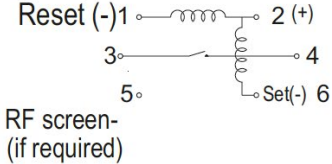
Circuit Diagram, Form A



Circuit Diagram, Form B



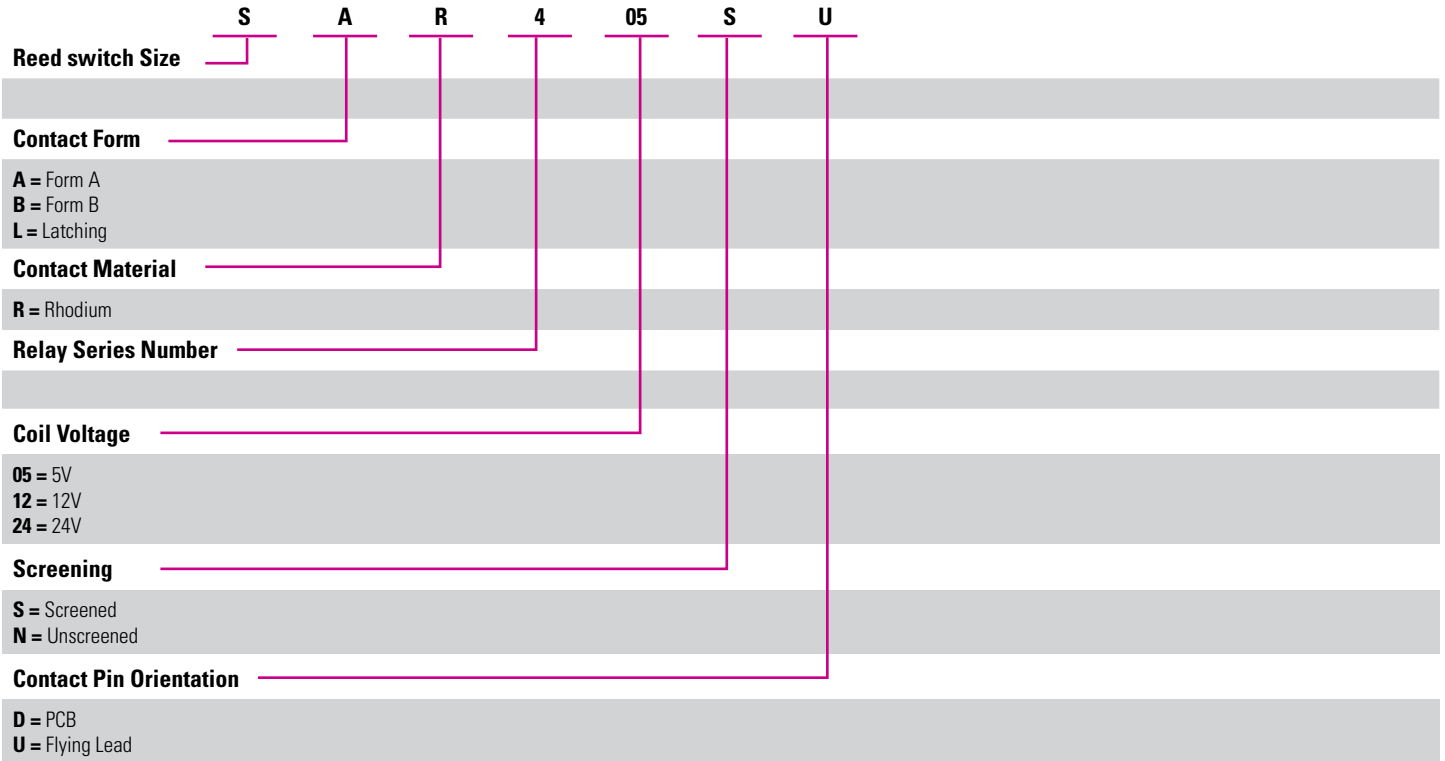
Circuit Diagram, Latching



Please refer to this document for circuit design notes:
<https://www.cynergy3.com/blog/reed-relay-application-notes>



Example : SAR405SU



Please refer to this document for circuit design notes:
<https://www.cynergy3.com/blog/reed-relay-application-notes>

Made in the UK

Distributor

info@amstechnologies.com
www.amstechnologies-webshop.com

Contact us