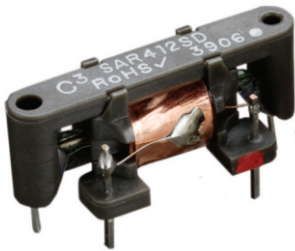


4 series

miniature screened, open frame

3.5 kV, 3.5A



- **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	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
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	

*see graphical data

Part Numbering System

Reedswitch Size: **S** _____ **S** **A** **R** **4** **05** **S** **U**

Contact Form **A**: Form A, **B**: Form B, **L**: Latching _____

Contact Material **R**: Rhodium _____

Relay Series Number _____

Coil Voltage **05**: 5V, **12**: 12V, **24**: 24V _____

Screening **S**: Screened, **N**: Unscreened _____

Contact Pin Orientation **D**: PCB, **U**: Flying Lead _____

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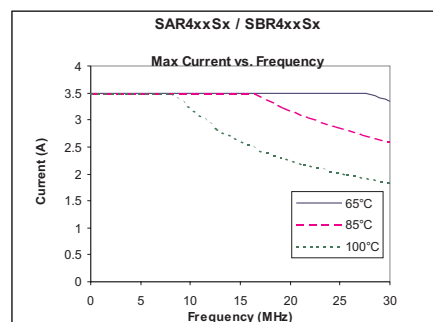
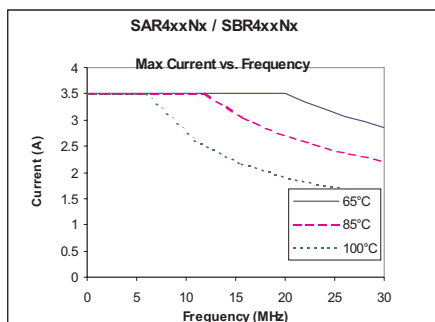
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SAR4-2014

4 series

miniature screened, open frame

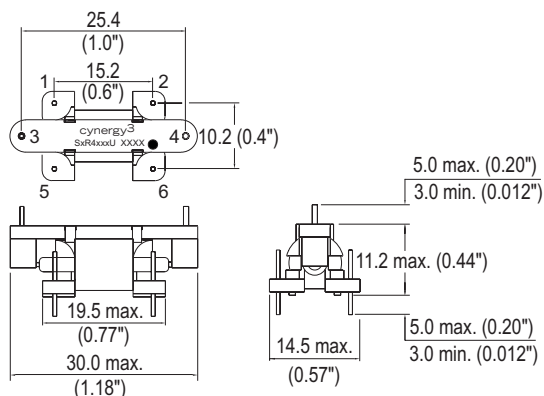
3.5 kV, 3.5A



Mechanical Dimensions

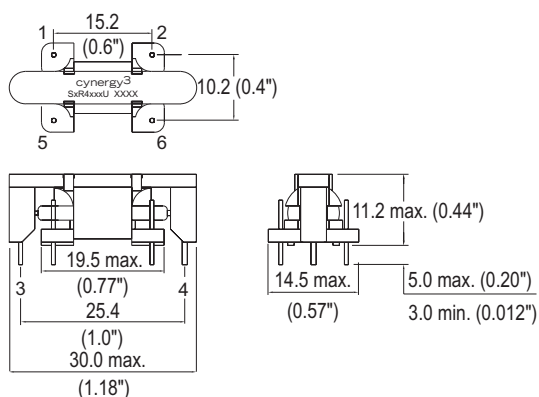
All dimensions are in millimeters (inches)

Flying Lead (Pins Up)

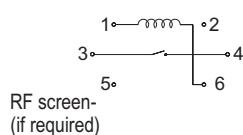


Pins 1, 2, 5, 6 require 0.9mm diameter $\pm$ 0.05mm holes

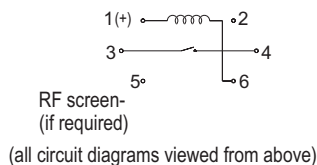
PCB Mount (Pins Down)



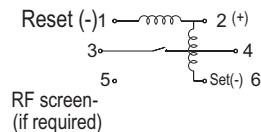
Circuit Diagram, Form A



Circuit Diagram, Form B



Circuit Diagram, Latching



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