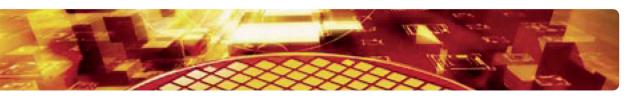


4 series

miniature screened, open frame 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.

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

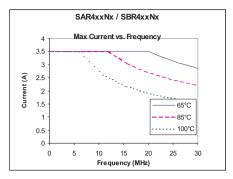
Contact	Units	Conditions	Form A			Form B			Latching	
Contact Material			Rhodium		Rhodium		Rhodium			
Isolation across contacts	kV	DC or AC peak	3		3		3.5			
Max. carry current	Α	DC or AC rms	3.5*		3.5*		1.5			
Max. switching power	W		10		10		10			
Max. switching voltage	V	DC or AC peak	20		20		20			
Max. switching current	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 ⁹		10 ⁹		10 ⁹			
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 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			

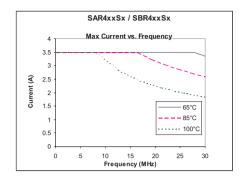
^{*}see graphical data



4 series

miniature screened, open frame 3.5 kV, 3.5A

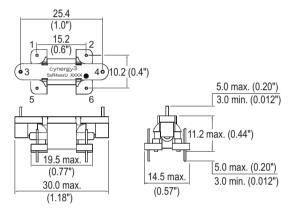




Mechanical Dimensions

All dimensions are in millimeters (inches)

Flying Lead



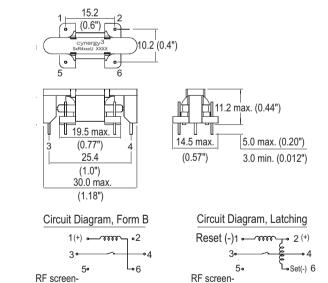
Pins 1, 2, 5, 6 require 0.9mm diameter \pm 0.05mm holes

PCB Mount

Circuit Diagram, Form A

RF screen-

(if required)



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(all circuit diagrams viewed from above)