Radio Frequency Reed Relays

- 0.5A RF at 1-30MHz
- 1.5kV Isolation
- Long Lifetime
- 1" Package
- Customising Facility

Miniature Screened 0.5A, 1.5kV 2 Series

A sub-miniature 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 with switch connections via PCB only.

Available as Form A (SPNO), Form B (SPNC) or latching (bistable) contact configurations

Contact	Units	Conditions	Form A	Form B	Latching
Contact Material			*Ruthenium	*Ruthenium	*Ruthenium
Carry Current	A	DC or AC rms max	1.0	1.0	1.0
Switching Current	A	DC or AC peak max	0.5	0.5	0.5
Switching Power	W	DC max	10	10	10
Switching Voltage	V	DC or AC peak max	300	300	300
Isolation across contacts	kV	DC or AC peak	1.5	1.5	1.5
Capacitance across contacts	pF	coil/screen grounded	<0.4	<0.4	<0.4
Lifetime	operations	dry switching	$^{9}10$	10^{9}	10^{9}
Lifetime	operations	10W switching	$^{8}10$	10^{8}	10^{8}
Contact Resistance (Initial)	mOhms	maximum (typical)	200	200	200
Insulation Resistance	Ohms	minimum (typical)	$^{10}10^{13}$)	10^{10} (10^{13})	10^{10} (10^{13})
Coil			12V	12V	12V
Must Operate	V	DC, 20°C	8	8	7
Must Release	V	DC, 20°C	2	2	N/A
Min Pulse Length	ms		N/A	N/A	4.0
Operate Time	ms		1.0	1.0	1.0
Release Time	ms	diode fitted	0.5	0.5	0.5
Resistance	Ohms	20°C	200	900	1530
Relay					
Isolation contact to coil	kV	DC or AC peak	1.5	1.5	1.5
Environmental					
Operating temperature range	°C		-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	20	20	22

*Ruthenium Oxide over Rhodium

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Miniature Screened 0.5A, 1.5kV
2 Series

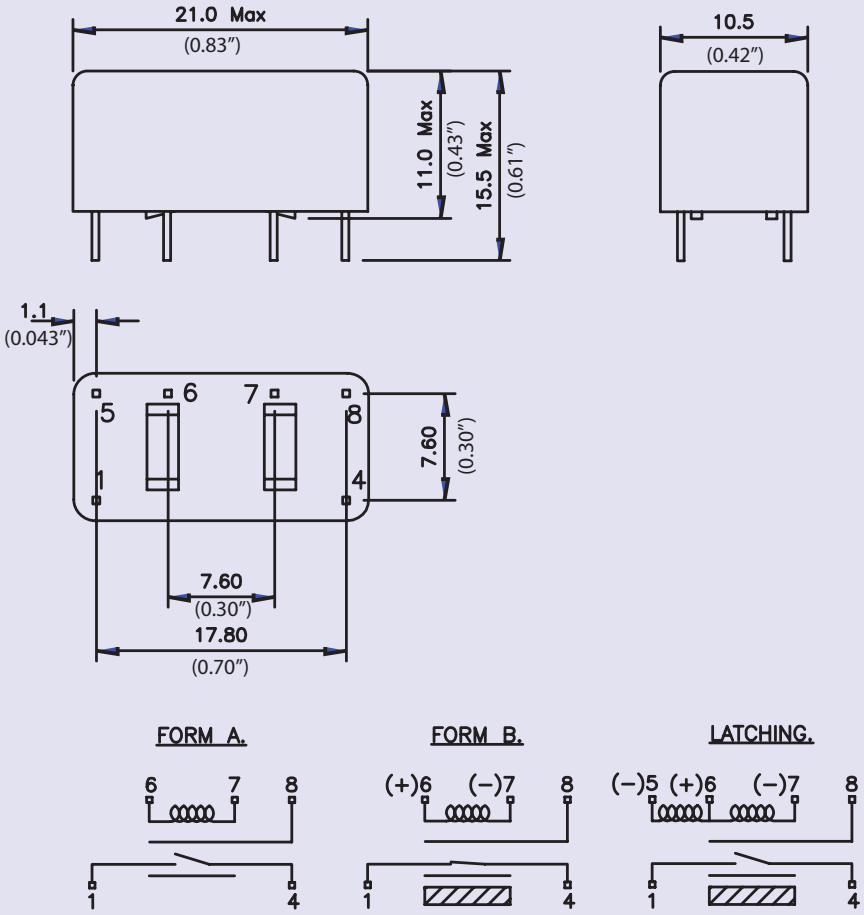
Part Numbering system

T A R 2 12 S M

Reed Switch size: T
Contact Form A: Form A, *B:* Form B, *L:* Latching
Contact Material R: Ruthenium over Rhodium
Relay Series Number
Coil Voltage 5: 5V, *12:* 12V, *24:* 24V
RF Screening S: Screened, *N:* Unscreened
Magnetic Screen M: Fitted *N:* None

See website for application notes and latest data

Mechanical Diagram



Circuit diagrams viewed from the underside