

FRS22000 series, SLR3 series

miniature latching, 3.5 kV, 1.5A







A latching RF reed relay designed for manpack, portable HF radio systems, from 1-30MHz, where power resources are limited and board space is at a premium. These relays have separate set and reset coils to simplify board design, are capable of carrying up to 1.5A current at 30MHz and can withstand either 1.5, 3 or 3.5kV between contacts. The FRS22012 is a fast latching relay with RF and magnetic screening, that enables switching with coil pulse lengths down to 0.5ms.

- Bistable Latching Relay
- 0.5 Coil Pulse length
- 3.5kV DC Isolation
- 1.5A Carry Current
- RF & Magnetic Screening
- Approved to MIL standards for Bump, Shock and Vibration

Contact	Units	Conditions	FRS22012	SLR305SD01	SLR305SD02
Action (form A, B or Latching)				Latching	
Switching Voltage	V	DC max		20	
Switching Current	А	DC max		0.5	
Carry Current	А	RMS at 30MHz		1.5	
Isolation	kV	DC max	3.5	1.5	3.0
Capacitance	pF	coil/screen gnd	0.2	<1	<1
Contact Connections		pin number		3 & 4	
Lifetime	operations	dry switching		10 ⁹	
Contact Resistance	m0hms	maximum (typical)		80 (30)	
Insulation Resistance	Ohms	minimum (typical)		1010 (1013)	
ESR at 1.5A, 30MHz	m0hms	typical		400	
Coil At 20°C					
Nom. Working Voltage	VDC		12	5	5
Min. pulse length	ms	Minimum	0.5	2	2
Operate time	ms	diode fitted	0.5	2	2
Nominal Resistance	ohms	+/10%	500	300	300
RF Screening			Part	No	No
RF Screening Connection		pin number		7	
Coil Connections	Set	pin number		1 & 2(+)	
Reset				5 & 6(+)	
Relay					
Isolation contact to coil/screen	kV	DC max		4	
Capacitance contact to all other terminals	pF	contacts open		2.5	
Capacitance contact to all other terminals	pF	contacts closed	4.0	3	3
Environmental					
Operating temperature range	°C			-40 to +85	
Storage temperature range	°C			-40 to +125	
Weight	gm		11	7	7

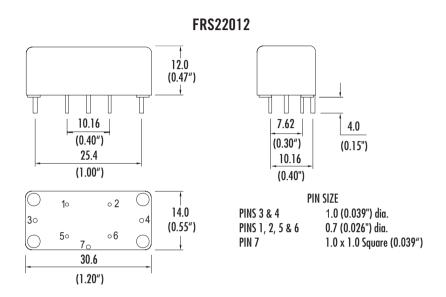


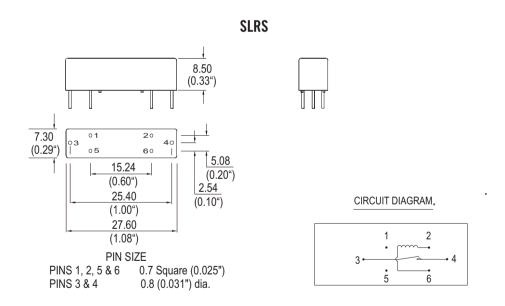
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Mechanical Dimensions

All dimensions are in millimeters (inches)





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