

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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FRS22012 SLR3 series

Miniature Latching, 1.5A,3.5kV, Reed Relay







Latching RF relay designs 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.

Capable of carrying up to 1.5A current at 30MHz and withstanding either 1.5, 3 or 3.5kV between contacts.

The FRS22012 is a fast latching relay with both RF and magnetic screening, that enables switching with coil pulse lengths down to 0.5ms.**1

- Bistable Latching relay
- 1.5A Carry current (up to 30MHz)
- 3.5kV DC Isolation
- 0.5ms Coil pulse length version

Onetent Constitution			EDC00010	CI DOCECDO1	CLBOOLCBOO
Contact Specification Contact material Switch action Carry Current max Switching Current Switching Power Switching Voltage Isolation Capacitance Contact connections Lifetime operation Contact Resistance insulation Resistance ESR at 1.5A, 30MHz	A A W V kV pF	RMS@30MHz DC max max DC max coil/screen gnd pin position dry switching max (typical) max (typical) typical	Rhodium Bistable 1.5 0.5 10 20 3.5 0.2 3 & 4 10 ⁹ 80 (30) 10 ¹⁰ (10 ¹³) 400	SLR305SD01 Rhodium Bistable 1.5 0.5 10 20 1.5 <1 3 & 4 10 ⁹ 80 (30) 10 ¹⁰ (10 ¹³) 400	SLR305SD02 Rhodium Bistable 1.5 0.5 10 20 3.0 <1 3 & 4 10° 80 (30) 10¹¹⁰ (10¹³) 400
Coil at 20°C					
Operating Voltage	V	Nominal	12	5	5
Resistance RF Screening RF Screening Connection Coil Connections	W Set Reset	Nominal pin position pin position pin position	500 Partial 7 5 & 6 (+) 1 & 2 (+)	300 None 5 & 6 (+) 1 & 2 (+)	300 None 5 & 6 (+) 1 & 2 (+)
Relay					
Construction Pulse Length Operate Time Isolation Contact to all	ms ms	Minimum diode fitted	Covered 0.5 0.5	Open Frame 2 2	Open Frame 2 2
other terminals	kV	DC max	4	4	4
Isolation Contact to Screen Capacitance Contact to	kV	DC max	250	250	250
all other terminals	pF	contact open	2.5	2.5	2.5
Environmental					
Storage Temperature Operating Temperature	°C °C	range range	-55 to +125 -40 to +85		
Weight	gm	typical	11	7	7

<u>Please refer to this document for circuit design notes:-</u> http://www.cynergy3.com/blog/application-notes-reed-relays-0

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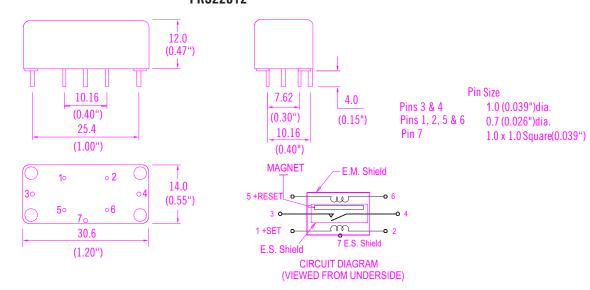
Miniature Latching, 1.5A,3.5kV, Reed Relay

Mechanical Dimensions

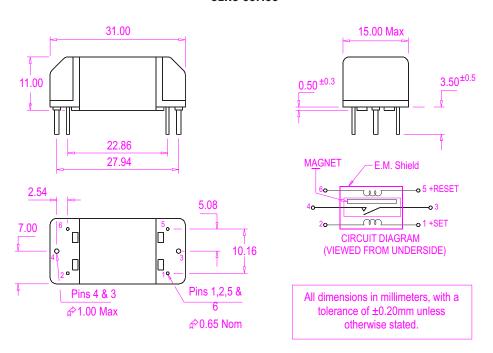
All dimensions are in millimeters (inches)



FRS22012



SLR3 series



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