

- Up to 3KV Isolation
- 5A Carry Current (up to 30MHz)
- Excellent RF Characteristics
- Designed for HF Applications
- Compact Package on 0.1" Pin Pitch
- Full Customising Facility

FRS12000 Series Screened. 2kV, 5A

Crydom's FRS12000 series feature two Crydom reed switches connected in parallel for higher current capability. Available in both open frame and covered construction (depending upon voltage isolation requirements), the FRS12000 series utilises materials with exceptional RF and temperature performance characteristics. In addition the coils are partially screened offering extended RF performance over the HF band.

CONTACT	UNITS	CONDITIONS	FRS12030	FRS12208
Action (form A, B or Latching)			A	A
Switching Voltage	V	DC max	20	20
Switching Current	A	DC max	0.5	0.5
Carry Current	A	RMS	5	5
Isolation	kV	DC max	0.5	2
Capacitance	pF	coil/screen gnd	0.3	0.3
Contact Connections		pin position	5 & 8	5 & 12
Lifetime	operations	dry switching	10 ⁹	10 ⁹
Contact Resistance	mOhms	maximum (typical)	80 (30)	80 (30)
Insulation Resistance	Ohms	minimum (typical)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)
ESR at 4.5A, 30MHz	mOhms	typical	90	90

COIL at 20°C				
Nominal Working Voltage	VDC		24	24
Must Operate	VDC	max	15	15
Must Release	VDC	min	4	4
Nominal Resistance	ohms	+10%	1150	1000
RF Screening			Part	Part
RF Screening Connection		pin position	17	15
Coil Connections		pin position	3 & 11	4 & 13

RELAY				
Construction			Open Frame	Covered
Operate time (incl. bounce)	mS		2	2
Release time (incl. bounce)	mS		1	1
Contact to all				
other terminals	kV	DC max	0.5	2
Coil to screen	kV	DC max	0.5	0.5
Capacitance contact to				
all other terminals	pF	contacts open	2.5	3.0

ENVIRONMENTAL				
Storage temperature range	°C			-55 to +125
Operating temperature range	°C	Limited current*		-40 to +85
Shock	g	11ms 1/2 sine pk		100

*see graphical data

CONTACT US NOW

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Many other variants in the FRS12000 family are available with different coil and contact configurations, as well as a number of pin footprints for drop-in replacements.

