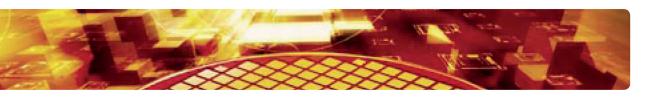
FRD12000



screened 8kV, 6A







An open frame RF reed relay with 8kV isolation and 6A (at 30MHz) carry current, the FRD12000 series has been used many HF radio system specifications over the years, with applications in commercial maritime (GMDSS) equipment and military HF radio units worldwide. The use of vacuum reed switches with rhodium contacts offers high isolation voltages, low contact resistance and long operating lifetime.



- 6A Carry Current (up to 30MHz)
- Excellent RF Performance
- Ideal for Antenna Tuning Units
- Form A/B Contact Configuration
- Customising Facility



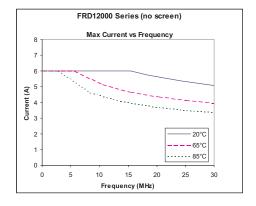
Available as Form A (SPNO) or Form B (SPNC) contact configurations.

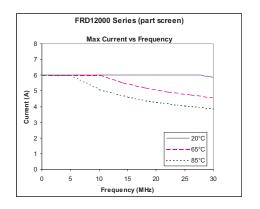
Contact	Units	Conditions	FRD12015	FRD12021	FRD12023	FRD12049
Action (form A, B or Latching)		А	А	В	А	В
Switching Voltage	٧	DC max	20	20	20	20
Switching Current	Α	DC max	1	1	1	1
Carry Current	Α	RMS max	6	6	6	6
Isolation	kV	DC max	8	8	5	8
Capacitance	pF	coil/screen gnd	0.4	0.6	0.6	0.6
Lifetime	operations	dry switching	10 ⁹	10 ⁹	10 ⁹	10 ⁹
Contact Resistance	m0hms	maximum (typical)	50 (15)	50 (15)	50 (15)	50 (15)
Insulation Resistance	Ohms	minimum (typical)	$10^{10} (10^{13})$	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)	1010 (1013)
ESR at 4.5A, 30MHz	m0hms	typical	100	150	150	150
COIL at 20°C						
Nominal Working Voltage	VDC		24	12	12	24
Must Operate	VDC	max	15	8	8	14
Must Release	VDC	min	2	2	2	4
Nominal Resistance	ohms	+/10%	1000	380	480	1500
RF Screening			Part	-	-	-
RF Screening Connection		pin position	2 & 5	2 & 5		
Coil Connections		pin position	1 & 6	1 & 6	1 & 6	1 & 6
RELAY						
Operate time (including bounce)	ms		2	3	3	3
Release time	ms		1	2	1	2
Isolation contact to all other terminals	kV	DC max	10	10	10	10
Isolation coil to screen	kV	DC max	0.5	N/A	N/A	N/A
Capacitance contact to all other terms	pF	contacts open	2.0	2.5	1.5	2.5
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			
Bump	g	6ms 1/2 sine pk	40			
Vibration	g	10- 500Hz	10			
Weight	gm		24	33	24	33
and graphical data						

see graphical data.



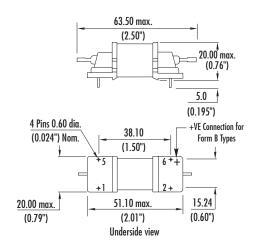
screened 8kV, 6A

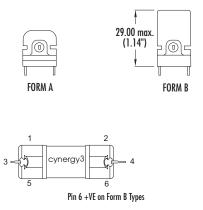




Mechanical Dimensions

All dimensions are in millimeters (inches)





IS09001 Certified

USA

Sales & Tech Support(866) 258-5057 Email: sales@cynergy3.com Cynergy3 Components 2320 Paseo de las Americas, Suite 104 San Diego, CA 92154

EUROPE - UK

Telephone +44 (0) 1202 897969 Fax +44 (0) 1202 891918 Email:sales@cynergy3.com Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE

ASIA - Thailand

Telephone +66 (0)2 665 2517 Fax +66 (0)2 665 2588 Cynergy 3 Components, Asia 18/8 Fico Place 12th Floor Soi Sukhumvit 21 (Asoke) Klongtoey Nua, Wattana Bangkok, Thailand 10110