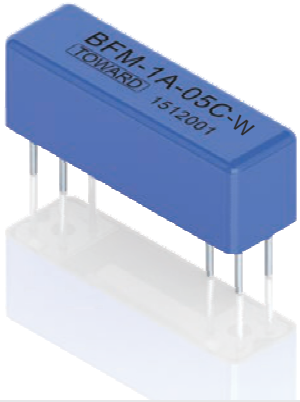
BFM Series

1a, 1c Reed Relay

Features

- High reliability reed relays.
- High Insulation Resistance.
- High speed switching compared to electromechanical relays.
- Hermetically sealed contacts for long life.
- Optional coaxial shield for 50Ω impedance and switching of fast rise time digital pulses.
- Wide operating temperature rang - 40 ℃to +125 ℃.
- RoHS compliant.



Order Code

BFM- XX-XX X -W
a b c d

a : Contanct Form : 1A=1 Form A, 1C=1 Form C

b : Nominal Coil Voltage : 05=5VDC, 12=12VDC

c : C=Coaxial Shield

d : W=Wide Operating Temperature Range

Coil Date-Standard Type (at 20℃)

Part Number	Nominal Voltage DC ± 10% [V]	Coil Resistance ± 10% [ohm]	Nominal Current [mA]	Must Release Voltage MIN. [V] at 20℃	Must Operate Voltage MAX. [V] at 20℃
BFM-1A-W	5	230	21.7	0.4	2.5
	12	1500	8.0	1.0	6.7
BFM-1C-W	5	230	21.7	0.4	2.5
	12	1500	8.0	1.0	6.7

Contact Specifications

Contact Form	1 Form A	1 Form C
Contact Rating	10W	3W
Max. Switching Voltage	200V	150V
Max. Switching Current	0.5A	0.25A
Max. Carry Current	1.5A	1.0A
Max. Static Contact Resistance 50mV,10mA	100mΩ	150mΩ
Max. Dynamic Contact Resistance 0.5V,50mA at 100Hz,1.5msec	200mΩ	200mΩ

Electrical Specifications

Contact Form		1 Form A	1 FormC
Breakdown Voltage	Between contacts	350VDC	200VDC
	contact to shield	350VDC	200VDC
	contact / shield to coil	1500VDC	1500VDC
		$10^{12}\Omega$	$10^{10}\Omega$
Capacitance-Typical	Shield Floating	1.0pF	2.0pF
Across Open Contacts	Shield Guarding		1.0pF
Operate Time Including bounce - Typical		0.5mS	1.0mS
Release Time		0.1mS	2.0mS

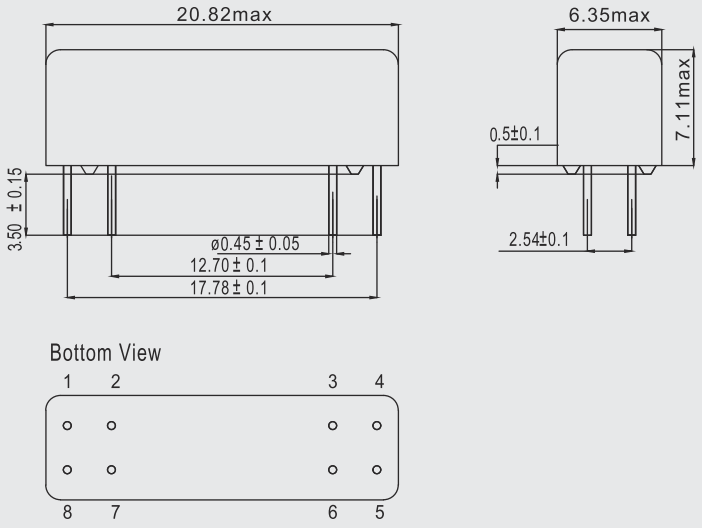
Mechanical Specifications

Vibration (0 to 2KHz 1.5mm)	20G
shock (11mS 1/2 Sin Wave)	50G

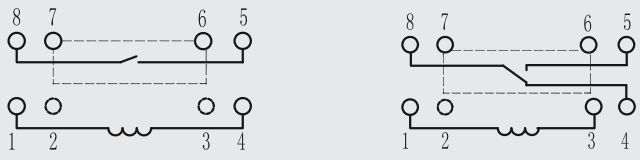
Environmental

Operating Temp	-40℃~+125℃	
Storage Temp	-40℃~+125℃	
Life Expectancy (1.0VDC 10mA)	$5X10^8$	$1X10^8$

Dimensions (Unit : mm)



Wiring Diagrams (Top View)



BFM-1A-W BFM-1C-W

Notes:Model BFM-1A/1C-W pin#6.pin#7are tied to coaxial shield.