



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!



## Contact us

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**Part Number: BFM Series**  
**1A, 1C Instrumentation Reed Relays**  
**Product Data Sheet**

## PICTURE

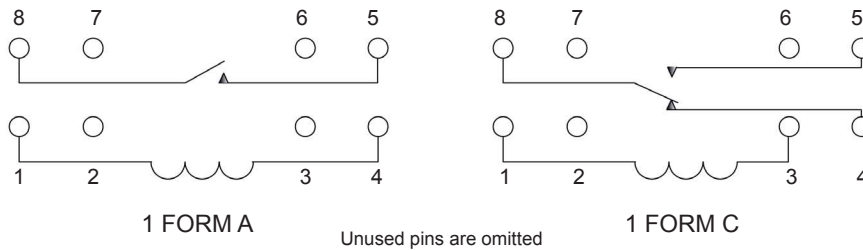


✓ RoHS Compliant

## FEATURES

- High Reliability Instrumentation Grade ( ) reed switch with sputtered Ruthenium contacts
- 1 Form A and 1 Form C contacts
- Industry Standard Footprints
- Ideal for Test and Instrumentation applications
- Hermetically sealed contacts for long life
- Optional Electrostatic Shield or Coaxial (50Ω impedance).
- High Insulation Resistance: 10<sup>12</sup> Ω MIN (Form A)
- Metal Cover (reduces magnetic interaction)

## CIRCUIT DIAGRAM (Top View)

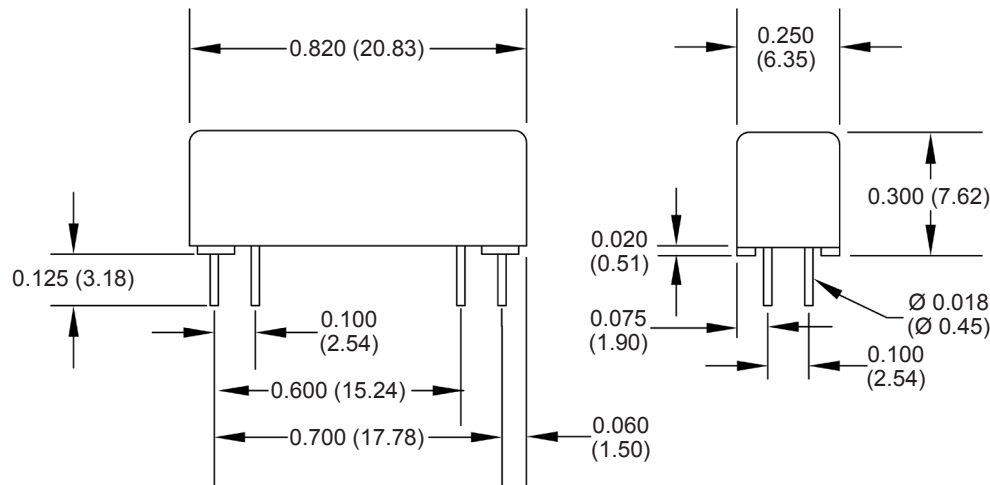


## ORDERING INFORMATION

Series	Form	Coil	Options
BFM	1A	05	E = E/S (Tied to pin #7)
	1C	12	C = Coaxial (Tied to pins #6 & #7)

**Part Number Example:** BFM-XX-XXX      BFM-1A-05E = 1 form A, 5 Volt Coil with E/S Shield

## DIMENSIONS



Drawings not to scale.  
 All dimensions in inches (mm) nominal.

As part of the company policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on this product range and the details of our full design and manufacturing service. All products are supplied to our standard conditions of sale unless otherwise agreed in writing.

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**Part Number: BFM Series**  
**1A, 1C Instrumentation Reed Relays**  
**Product Data Sheet**

COIL DATA-STANDARD TYPE 1 FORM A (at 20°C)				
NOMINAL COIL VOLTAGE (VDC)	COIL RESISTANCE ±10% (Ω)	MAX OPERATE VOLTAGE (VDC)	MIN RELEASE VOLTAGE (VDC)	MAX COIL VOLTAGE (VDC)
5	370	3.8	0.4	7
12	1500	9	1	16

COIL DATA-STANDARD TYPE 1 FORM C (at 20°C)				
NOMINAL COIL VOLTAGE (VDC)	COIL RESISTANCE ±10% (Ω)	MAX OPERATE VOLTAGE (VDC)	MIN RELEASE VOLTAGE (VDC)	MAX COIL VOLTAGE (VDC)
5	230	3.8	0.4	7
12	1500	9	1	16

CONTACT RATING		
RELAY MODEL	1A	1C
Max Switching Power	10 W	5 W
Max Switching Voltage	200 VDC	150 VDC
Max Switching Current	0.5 A	0.25 A
Max Carry Current	1.5 A	1 A

SPECIFICATIONS		
RELAY MODEL	1A	1C
Contact Resistance (Initial)	100 mΩ	150 mΩ
Operate Time - including Bounce (at Nominal Voltage) (Typical)	0.5 ms	1.0 ms
Release Time (Typical)	0.1 ms	2.0 ms
Insulation Resistance Between all Isolated pins (+20°C, 40%RH, 100V) (MIN)	10 <sup>12</sup> Ω	10 <sup>9</sup> Ω
Dielectric Strength: Across Contacts (DC/Peak AC Resistive) (MIN)	350 V	200 V
Dielectric Strength: Contacts to Coil (DC/Peak AC Resistive) (MIN)	350 V	200 V
Dielectric Strength: Contacts/Shield to Coil (DC/Peak AC Resistive) (MIN)	1500 V	1500 V
Capacitance Across Open Contacts: Shield Floating/Guarding (Typical)	1.0 / 0.3 pF	2.0 / 1.0 pF
Vibration	20G	
Shock	50G	
Operating Temperature	-25°C to 85°C	
Storage Temperature	-35°C to 100°C	
Life Expectancy (1.0V, 10mA Load) (Typical)	500 x 10 <sup>6</sup> Ops	100 x 10 <sup>6</sup> Ops

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