

**Part Number: BFM-CW Series**  
**1A & 1C Instrumentation Reed Relays for -40°C to +125°C Operation**  
**Product Data Sheet**

**PICTURE**

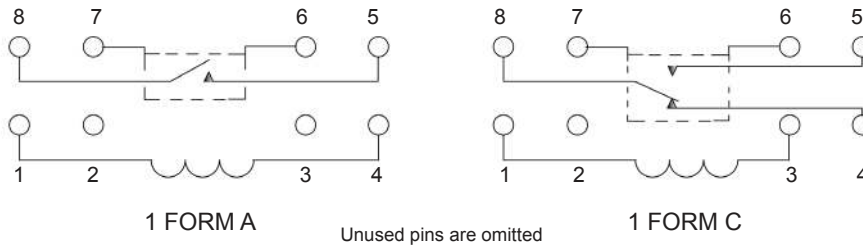


**FEATURES**

- Wide Operating Temperature Range -40°C to +125°C
- High Reliability Instrumentation Grade (≡ OTO Technology) reed switch with sputtered Ruthenium Form A contacts
- Industry Standard Packages
- Hermetically sealed contacts for long life
- Standard Coaxial shield (50Ω impedance)
- High Insulation Resistance: 10<sup>12</sup> Ω MIN (Form A)
- Metal Cover (reduces magnetic interaction)

✓ RoHS Compliant

**CIRCUIT DIAGRAM (Top View)**

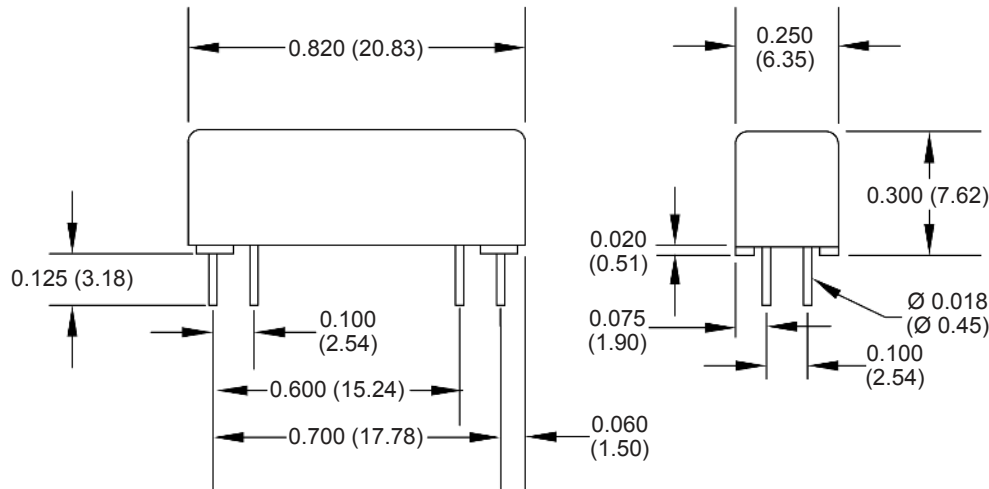


**ORDERING INFORMATION**

Series	Form	Coil	Standard Features
BFM	1A	05	C = Coaxial Shield (Tied to pins #6 & #7)
	1C	12	W = Wide Temperature

**Part Number Example:** BFM-XX-XXXX      BFM-1A-05CW = 1 form A, 5 Volt Coil with Coaxial Shield and Wide Temperature

**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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**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)	MAX RELEASE VOLTAGE (VDC)	MAX COIL VOLTAGE (VDC)
5	240	2.5	0.4	7
12	1500	6.7	1	16

COIL DATA-STANDARD TYPE 1 FORM C (at 20°C)				
NOMINAL COIL VOLTAGE (VDC)	COIL RESISTANCE ±10% (Ω)	MAX OPERATE VOLTAGE (VDC)	MAX RELEASE VOLTAGE (VDC)	MAX COIL VOLTAGE (VDC)
5	240	2.5	0.4	7
12	1500	6.7	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	-40°C to 125°C	
Storage Temperature	-40°C to 125°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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