

## Crystal Can Welded • 4PDT Dry Circuit to 5 Amps, 7.5 Amps & 10 Amps

- **AVAILABLE WITH ARC SHIELDS**...for grounded case operation on 115 VAC loads, to 10 Amps
- **AVAILABLE WITH BIFILAR WOUND COIL**...for inductive spike suppression
- **SPACE ENVIRONMENT VERSIONS**...can be manufactured under extreme high-reliability controls

## SPECIFICATIONS

### GENERAL

**Contact Arrangement** .....4PDT (4 Form C)  
**Weight**.....3.0 oz approx.  
 Designed to meet the requirements of MIL-PRF-39016.

### PERFORMANCE

#### Contact Rating (Note 1)

##### Resistive:

BR15X .....10 Amps @ 28 VDC or 115V 400 Hz  
 (Case Ungrounded)  
 BR15W .....7.5 Amps @ 28 VDC or 115V 400 Hz  
 (Case Ungrounded)  
 BR15Y .....5 Amps @ 28 VDC or 115V 400 Hz  
 (Case Ungrounded)

##### Inductive:

BR15X .....3.5 Amps @ 28 VDC  
 BR15W .....2.5 Amps @ 28 VDC  
 BR15Y .....1.75 Amps @ 28 VDC

**Life** .....100,000 operations minimum  
 @ rated load, 125°C

#### Pull In Power:

BR15X .....1 w approx.  
 BR15W .....500 mw approx.  
 BR15Y .....400 mw approx.

#### Operate/Release Time .....DC Coil AC Coil

BR15X .....7.5 ms max 20 ms max  
 BR15W .....8.5 ms max 20 ms max  
 BR15Y .....8.5 ms max 20 ms max  
 excluding bounce time at nominal coil voltage

**Contact Bounce Time**.....2 ms max  
 @ rated contact load, 28 VDC

**Contact Voltage Drop:**  
 Before Life .....100 mv max @ rated current  
 6 or 28 VDC  
 After Life .....200 mv max @ rated current  
 6 or 28 VDC

### ENVIRONMENTAL

**Temperature Range** .....-65°C to +125°C  
**Vibration** (Note 2).....0.4" DA 10 - 38 Hz,  
 20 G's 38 - 2,000 Hz  
**Shock (Operating)** (Note 2) .....50 G's 11 ms

### ELECTRICAL CHARACTERISTICS

**Duty Cycle** .....Continuous  
**Insulation Resistance**.. 10,000 megohms @ 500V 25°C  
 1,000 megohms @ 500V 125°C

#### Dielectric Strength:

##### Sea Level:

Contact to Case .....1,250 VRMS  
 Contact to Coil .....1,250 VRMS  
 Coil to Case .....1,250 VRMS

##### Across Open Contacts:

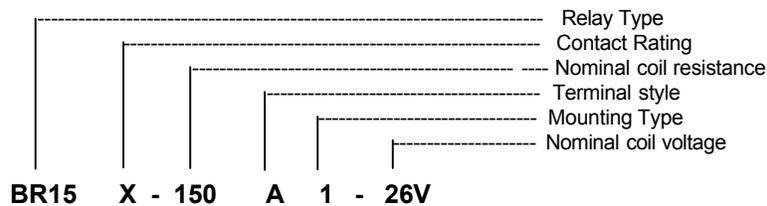
BR15X .....1,250 VRMS  
 BR15Y and W .....1,000 VRMS  
 70,000 Feet  
 All points.....500 VRMS

### Notes

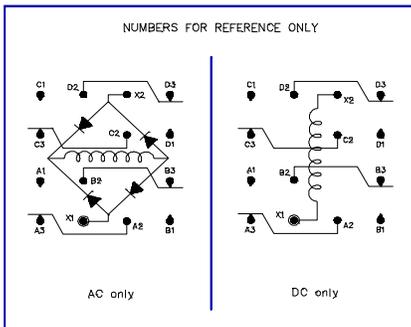
1. For case grounded loads and other ratings, consult the factory.
2. For applications requiring other shock and vibration levels, consult the factory.
3. For other ratings consult the factory.
4. Relay contacts which have switched high level currents are no longer suitable for switching low level loads.

## COIL DATA

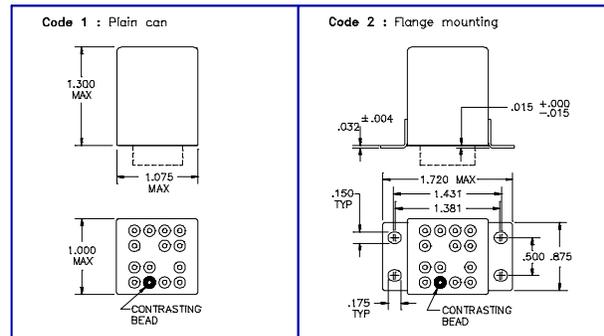
PART NUMBER MODEL BR15W — 7.5 Amps (500 MW) MODEL BR15X — 10 Amps (1 W) MODEL BR15Y — 5 Amps (400 MW)		BR15W-16() -6V	BR15W-65() -12V	BR15W-300() -26V	BR15W-5.5K() -115V	BR15W-AC() -115V
NOMINAL COIL VOLTAGE		6 VDC	12 VDC	26 VDC	115 VDC	115 VAC
MAXIMUM COIL VOLTAGE		7.3 VDC	14.8 VDC	32 VDC	127 VDC	127 VAC
PULL IN VOLTAGE (MAX at +125°C)		4.4 VDC	8.4 VDC	18 VDC	79 VDC	79 VAC
PULL IN VOLTAGE (MAX)		3 VDC	6 VDC	13 VDC	57.5 VDC	57.5 VAC
DROP OUT VOLTAGE (MIN)		0.3 VDC	0.6 VDC	1.3 VDC	5.7 VDC	5.7 VAC
COIL RESISTANCE ± 10% at 25°C	BR15W	16 OHMS	65 OHMS	300 OHMS	5.5K OHMS	AC
	BR15X	8 OHMS	32 OHMS	150 OHMS	2750 OHMS	AC
	BR15Y	22 OHMS	85 OHMS	400 OHMS	7K OHMS	AC



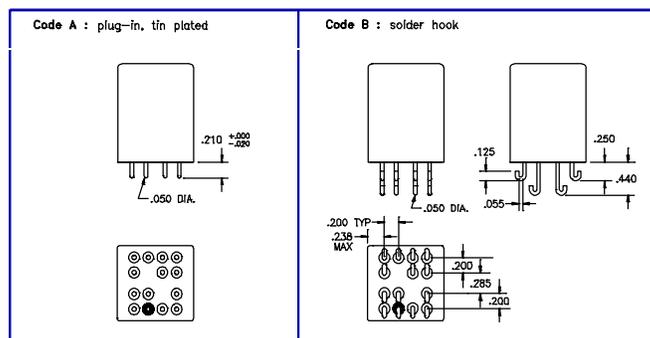
## SCHEMATIC TERMINALVIEW



## MOUNTING CODES

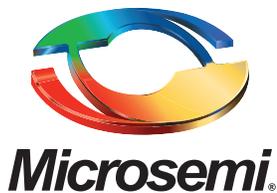


## TERMINAL STYLES



## GENERAL NOTES

- Unless otherwise specified, all tests made at nominal coil voltages, @ 25°C.
- For special coil variations, switching configurations, terminals styles and mounting types, consult the factory.
- Unless otherwise specified, tolerances on decimal dimensions are ± .010".
- Specifications contained herein are subject to change without notice.



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