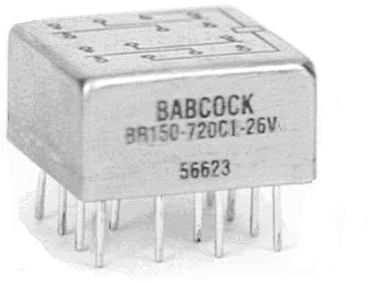
Miniature 4PDT Dry Circuit to 2 Amp To MIL-PRF-39016



Miniature
4PDT
Dry Circuit to 2 Amp
To MIL-PRF-39016

SPECIFICATIONS

GENERAL

Contact Arrangement .....4PDT (4 Form C)
Weight.....0.3 oz max.

Designed to meet the requirements of MIL-PRF-39016/14

PERFORMANCE

Contact Rating (Note 1)

Resistive .....2 Amp @ 28 VDC
0.5 Amp @ 115V 60 + 400 Hz
(Case Ungrounded)
Inductive .....0.5 Amp @ 28 VDC
Lamp .....0.1 Amp @ 28 VDC
Low Level .....10-50µA @ 10-50 mv DC
or peak AC (Note 4)

Life .....100,000 operations minimum
@ 1 amp load, 125°C

Pull In Power .....250 mw approx.

Operate/Release Time .....4 ms max, excluding
bounce time at nominal coil voltage

Contact Bounce Time.....2 ms max @ 1 Amp
28 VDC contact load

Contact Resistance

Before Life.....0.050 Ohms max @ 1 Amp
and 6 VDC
After Life.....0.150 Ohms max @ 1 Amp
and 6 VDC

ENVIRONMENTAL

Temperature Range.....-65°C to +125°C
Vibration (Note 2).....0.4" DA 10 - 38 Hz,
30 G's 38 - 2,000 Hz
Shock (Operating) (Note 2) .....75 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 .....750 VRMS
Contact to Coil .....750 VRMS
Coil to Case .....500 VRMS
Across Open Contacts .....500 VRMS
70,000 Feet
All points.....350 VRMS

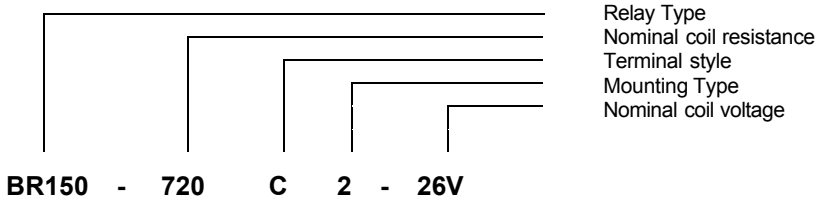
M39016/14 QUALIFIED to ER level M

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.

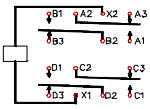
COIL DATA:

MODEL BR150 PART NUMBER	BR150-50()()-6V	BR150-73()()-9V	BR150-115()()-12V	BR150-280()()-18V	BR150-720()()-26V	BR150-1040()()-36V
NOMINAL COIL VOLTAGE	6 VDC	9 VDC	12 VDC	18 VDC	26 VDC	36 VDC
MAXIMUM COIL VOLTAGE	7 VDC	11 VDC	14 VDC	22 VDC	35 VDC	42 VDC
PULL IN VOLTAGE (MAX @+125°C)	3.8 VDC	5.6 VDC	7.6 VDC	11.2 VDC	18.0 VDC	22.8 VDC
PULL IN VOLTAGE (MAX)	2.7 VDC	4.2 VDC	5.4 VDC	8.4 VDC	13.5 VDC	17.1 VDC
DROP OUT VOLTAGE (MIN)	0.3 VDC	0.4 VDC	0.6 VDC	0.8 VDC	1.5 VDC	1.9 VDC
COIL RESISTANCE ± 10% @ 25°C	28 OHMS	73 OHMS	115 OHMS	280 OHMS	720 OHMS	1040 OHMS



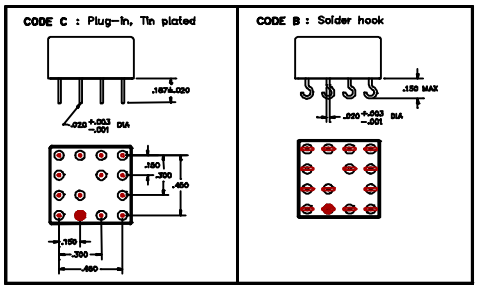
SCHEMATIC TERMINAL VIEW

NUMBERS FOR REFERENCE ONLY

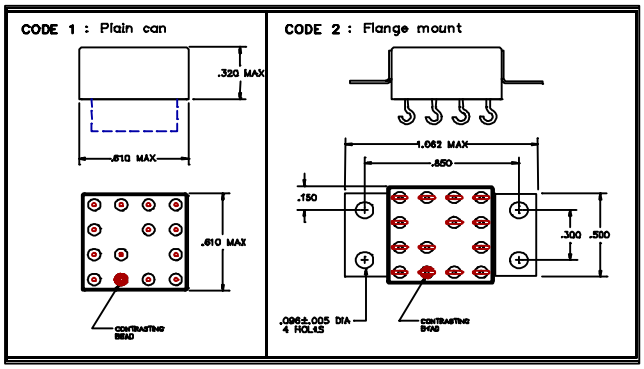


SCHEMATIC

TERMINAL STYLES



MOUNTING CODES



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.

Microsemi Corporate Headquarters
One Enterprise, Aliso Viejo,
CA 92656 USA

Within the USA: +1 (800) 713-4113
Outside the USA: +1 (949) 380-6100
Sales: +1 (949) 380-6136
Fax: +1 (949) 215-4996

E-mail: sales.support@microsemi.com

Microsemi Corporation (Nasdaq: MSCC) offers a comprehensive portfolio of semiconductor and system solutions for communications, defense & security, aerospace and industrial markets. Products include high-performance and radiation-hardened analog mixed-signal integrated circuits, FPGAs, SoCs and ASICs; power management products; timing and synchronization devices and precise time solutions, setting the world's standard for time; voice processing devices; RF solutions; discrete components; security technologies and scalable anti-tamper products; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, Calif., and has approximately 3,400 employees globally. Learn more at **www.microsemi.com**.

BR150-03/04.15