

Crystal Can Welded • DPDT Dry Circuit to 5 Amps

SPECIFICATIONS

GENERAL

Contact Arrangement 2PDT (2 Form C)
Weight 1.3 oz approx.
 Designed to meet the requirements of MIL-PRF-39016.

PERFORMANCE

Contact Rating (Note 1)

Resistive:
 BR13 5 Amps @ 28 VDC
 BR13H 3 Amps @ 28 VDC or 2 Amps @
 115 VAC, 400 Hz (Case Ungrounded)
 BR13K 2 Amps @ 28 VDC
 115 VAC, 400 Hz (Case Ungrounded)
 Inductive 1 Amp @ 28 VDC
 Low Level 10-50 μ A @ 10-50 mv DC
 or peak AC (Note 4)

Pull In Power:

BR13 250 mw approx.
 BR13H 100 mw approx.
 BR13K 40 mw approx.

Operate/Release Time:

BR13 5 ms max
 BR13H 6 ms max
 BR13K 15 ms max
 excluding bounce time at nominal coil voltage

Contact Bounce Time:

BR13 and BR13H 2 MS max @ 2 and 3 Amps
 @ 28 VDC
 BR13K 2 MS max @ 2 Amps 28 VDC

Contact Resistance:

Before Life 0.050 Ohms @ rated current
 and 6 VDC
 After Life 0.100 Ohms @ rated current
 and 6 VDC

ENVIRONMENTAL

Temperature Range -65°C to +125°C

Vibration (Note 2):

BR13 0.4" DA 10 - 38 Hz,
 20 G's 38 - 2,000 Hz
 BR13H and BR13K 0.4" DA 10 - 31 Hz,
 20 G's 31 - 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 1,000 VRMS
 Contact to Coil 1,000 VRMS
 Coil to Case 1,000 VRMS
 Across Open Contacts:
 BR13 and BR13H 750 VRMS
 BR13K 500 VRMS
 70,000 Feet
 All points 350 VRMS

Notes:

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

COIL DATA:

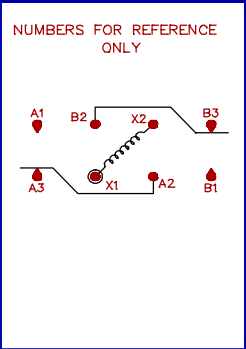
PART NUMBER MODEL BR13 — 5 Amps (250 MW) MODEL BR13H — 3 Amps (100 MW) MODEL BR13K — 2 Amps (40 MW)		BR13-36()0-6V BR13H-85()0-6V BR13K-220()0-6V	BR13-140()0-12V BR13H-350()0-12V BR13K-850()0-12V	BR13-675()0-26V BR13H-1.6K()0-26V BR13K-4K()0-26V	BR13-12K()0-115V BR13H-28K()0-115V BR13K-40K()0-115V
NOMINAL COIL VOLTAGE		6 VDC	12 VDC	26 VDC	115 VDC
MAXIMUM COIL VOLTAGE		7.3 VDC	14.8 VDC	32 VDC	127 VDC
PULL IN VOLTAGE (MAX at +125°C)		4.4 VDC	8.4 VDC	18 VDC	79 VDC
PULL IN VOLTAGE (MAX)		3 VDC	6 VDC	13 VDC	57.5 VDC
DROP OUT VOLTAGE (MIN)		0.3 VDC	0.6 VDC	1.3 VDC	5.7 VDC
COIL RESISTANCE ± 10% at 25°C	BR13	36 OHMS	140 OHMS	675 OHMS	12K OHMS
	BR13H	85 OHMS	350 OHMS	1600 OHMS	28K OHMS
	BR13K	220 OHMS	850 OHMS	4000 OHMS	40K OHMS (MAX.)



SCHEMATIC

BR13 H - 1.6K A 1 - 26V

TERMINAL VIEW



TERMINAL STYLES

Code A : Plug-in, tin plated

Code B : Solder hooks

Code C : 3" Printed circuit leads (Preformed leads available)

MOUNTING CODES

Code 1 : Plain can

BR13, BR13H, BR13K
A = .900
A = 1.290

Code 2 : Face flanges

Code 9 : Side flanges

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.