

HVR1B12

High Voltage Reed Relay

PRODUCT VISUAL



exact external product image with matching hvr1b12 marking

KEY RATINGS

COIL VOLTAGE
12 VDC

CONTACT FORM
1 Form B

SWITCH VOLTAGE
1 kVDC

CONTACT RATING
100 W

OVERVIEW

- High voltage reed relay
- Breakdown up to 4 kVDC
- Compact HVR magnetic-shield package
- Low contact resistance
- Excellent lifetime characteristics

COIL DATA

Nominal Coil Voltage	12 VDC
Nominal Current	48 mA
Coil Resistance	250±10% Ω
Max Pull-in Voltage	9 VDC
Min Drop-out Voltage	1 VDC

CONTACT RATINGS

Contact Form	1 Form B
Max Contact Rating	100 W
Max Switch Voltage	1 kVDC
Max Switch Current	1.0 A
Max Carrying Current	2.5 A
Min Breakdown Voltage	4 kVDC
Max Contact Resistance	150 mΩ
Life Expectancy	5×10⁷ ops @500V 100mA

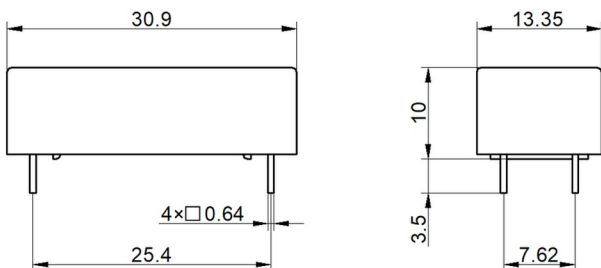
ELECTRICAL CHARACTERISTICS

Dielectric Open Contacts	4 kVDC
Dielectric Contact/Coil	4 kVDC
Insulation Open Contacts	1×10¹² Ω
Insulation Contact/Coil	1×10¹² Ω
Operate Time incl. Bounce	1.0 ms
Reset Time	0.25 ms
Capacitance	0.5 pF across open switch

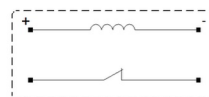
ENVIRONMENTAL / OPTIONS

Vibration	20 G, 10-2KHz 1.5mm
Shock	50 G, 11ms half-sine
Operating Temperature	-20°C to +70°C
Storage Temperature	-35°C to +105°C
Soldering Temperature	260°C, 5 sec dwell
Washability	Fully sealed

MECHANICAL OUTLINE / DIMENSIONS



CIRCUIT / MARKING / TERMINAL VIEW



ORDERING & SOURCE TRACEABILITY

HVR1B12 — HVR, 1B = 1 Form B, 12 = 12 VDC, Pin Out = Nil, Special = Nil

Source: HVR1B12.pdf

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