

Small Low Stray Capacitance Type (2a Mercury Relay)

Part number - Feature

● HFW-2A-***S(D)
 Diode
 Coil Voltage

● Low stray capacitance

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Performance

Specifications	Item	Standard
Contact Specifications	Contact Form	2a (make)
	Contact Rating	50W
	Max. Switching Voltage	DC 500V
	Max. Switching Current	1 A
	Max. Carry Current	2 A
	Contact Resistance	100 mΩ MAX (Initial)
Electrical Specifications	Breakdown Voltage	Open Contacts DC 1000V (1 min) Contact to Coil DC 1000V (1 min) Contact to Shield DC 1000V (1 min) Coil to Shield DC 1000V (1 min)
	Insulation Resistance	Between all isolated pins $1 \times 10^9 \Omega$ MIN (DC100V)
	Capacitance	Open Contacts 0.1pF MAX. (Shield Guarding) Contact to Shield 10pF MAX.
	Thermal Electromotive Force	60 μV TYP.
	Operate Time	(1 Pulse) 2.0 mS MAX. (at Nominal Voltage)
	Release Time	(1 Pulse) 1.5 mS MAX. (at Nominal Voltage)
Mechanical Spec.	Vibration	20G (0 to 55Hz 1.5mm)
	Shock	30G (11ms 1/2 Sin Wave)
Environment	Operating Temperature	-10°C to +60°C
Life Expectancy	Mechanical	1X10 ⁸ MIN. Operations
	Electrical	DC 10mV-10 μA 1X10 ⁸ MIN. Operations (R.L.)
High frequency characteristics (in-output impedance 50 Ω)	Return Loss	10MHz 35db MIN.
	Isolation	10MHz 65db MIN.
	Insertion Loss	10MHz 0.06db MAX.

Coil Specifications

Contact Form	Part Number	Nominal Voltage DC $\pm 10\%$ (V)	Coil Resistance $\pm 10\%$ (Ω) at 20°C	Nominal Current (mA)	Must Operate Voltage MAX. (V) at 20°C
1a	HFW-2A-24S(D)	24	1100	21.8	18.0
	HFW-2A-12S(D)	12	300	40.0	9.0
	HFW-2A-05S(D)	5	50	100.0	3.8

Dimensions /Terminal Identification (Unit:mm)

Dimensions	Terminal Identification
weight about 2.5gr.	TOP VIEW HFW-2A-***S HFW-2A-***SD Note: Mount a relay to be UP indication arrow within $\pm 30^\circ$ from a plumb line.