

Small Low Stray Capacitance Type (1a Mercury Relay)

■ Part number · Feature

● **HFW-1A-**-S(D)**

Diode
Coil Voltage

● Low stray capacitance

■ Performance

Specifications	Item	Standard			
Contact Specifications	Contact Form	1a (make mercury)			
	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 $1 \times 10^{10} \Omega$ MIN (DC100V)			
	Capacitance	Open Contacts 0.1pF MAX. (Shield Guarding) Contact to shield 8pF 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 ⁹ MIN. Operations			
	Electrical	DC. 10mV-10 μA 1X10 ⁹ MIN. Operations (R. L.)			
High frequency characteristics (in-output impedance 50 Ω)	Return Loss	10MHz	35db MIN.	50MHz	25db MIN.
	Isolation		65db MIN.		54db MIN.
	Insertion Loss		0.06db MAX.		0.10db MAX.

■ Coil Specifications

Contact Form	Part Number	Nominal Voltage DC. ±10% (V)	Coil Resistance ±10% (Ω) at 20°C	Nominal Current (mA)	Must Operate Voltage MAX. (V) at 20°C
1a	HFW-1A-24S(D)	24	1400	17.1	16.8
	HFW-1A-12S(D)	12	400	30.0	8.4
	HFW-1A-05S(D)	5	80	62.5	3.8

■ Dimensions /Terminal Identification (Unit:mm)

Dimensions	Terminal Identification
weight about 1.5gr.	TOP VIEW HFW-1A-**-S HFW-1A-**-SD Note: Mount a relay to be UP indication arrow within ±30°C from a plumb line.

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