50Ω Matching Type
(1a Mercury Relay)

■ Part number・Feature

● HFW-1A-**SW

Coil Voltage

● 50Ω impedance matching type

■ Performance

Specifications	Item	Standard
Contact Specifications	Contact Form	1a (make mercury)
	Contact Rating	0W
	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.500V (1 min) Contact to Coil DC.500V (1min) Contact to Shield DC.500V (1min) Coil to Shield DC.500V (1min)
	Insulation Resistance	Between all isolated pins $1\times10^{11}\Omega$ MIN (DC100V)
	Capacitance	Open Contacts 0.1pF MAX. (Shield Guarding) Contact to Shield 10pF MAX.
	Thermal Electromotive Force	60μV TYP.
	Operate Time	(1 Pulse) 2.0 mS MAX. (at Nominal Voltage)
	Release Time	(1 Pulse) 2.0 mS MAX. (at Nominal Voltage)
Mechanical Specifications	Vibration	20G (0 to 55Hz 1.5mm)
	Shock	30G (11mS 1/2 Sin Wave)
Environment	Operating Temperature	-10℃ to +60℃
Life Expectancy	Mechanical	$1X10^9$ MIN. Operations
	Electrical	DC.10mV-10μA $1X10^9$ MIN. Operations (R.L.)

■ Coil Specifications

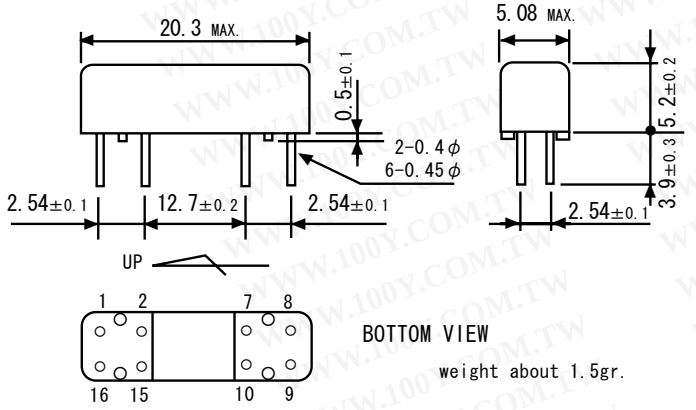
Contact Form	Part Number	Nominal Voltage DC.±10%(V)	Coil Resistance ±10%(Ω)at20℃	Nominal Current (mA)	Must Operate Voltage MAX.(V)at20℃
1a	HFW-1A-24SW	24	1400	17.1	16.8
	HFW-1A-12SW	12	400	30.0	8.4
	HFW-1A-05SW	5	80	62.5	3.8

■ High Frequency Characteristics (Input Output Impedance 50Ω)

Part Number	Item	Frequency		
		50MHz	100MHz	500MHz
HFW-1A-**SW	Return Loss	35db MIN.	30dB MIN.	23dB MIN.
	Isolation	60dB MIN.	550dB MIN.	42dB MIN.
	Insertion Loss	0.10dB MAX.	0.15dB MAX.	0.40dB MIN.

■ Dimensions /Terminal Identification (Unit:mm)

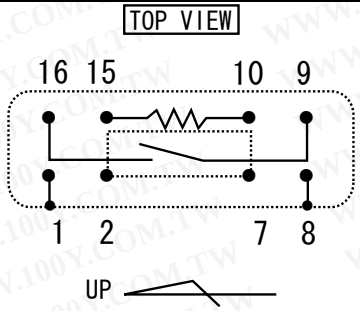
Dimensions



BOTTOM VIEW

weight about 1.5gr.

Terminal Identification



Note: Mmont a relay to be UP indication arrow within ±30℃ from a plumb line.