

Small-Size Low Stray Capacitance Type (1a • Reed Relay)

Part number • Feature

HFS-1A-**SW

└── Coil Voltage

Low stray capacitance, 50 impedance matching, with coaxial-shield

Performance

Specifications	Item	Standard
Contact Specifications	Contact Form	1a (make)
	Contact Rating	10W
	Max. Switching Voltage	DC100V
	Max. Switching Current	0.5 A
	Max. Carry Current	1.0 A
	Contact Resistance	150 m MAX (Initial)
Electrical Specifications	Breakdown Voltage	Open Contacts DC.400V (1 min) Contact to shield DC.400V (1 min) Shield to coil DC.400V (1 min)
	Insulation Resistance	Between all isolated pins 1×10^{10} MIN (DC100V)
	Capacitance	Open Contacts 0.1pF MAX. (shield Guarding) Contact to shield 3pF MAX.
	Thermal Electromotive Force	40μV typ.
	Operate Time	(incl. bounce) 0.5 mS MAX. (at Nominal Voltage)
	Release Time	0.2 mS MAX. (at Nominal Voltage)
Mechanical Specifications	Vibration	20G (0 to 2KHz 1.5mm)
	Shock	30G (11mS 1/2 Sin Wave)
Environment	Operating Temperature	-10 to +60
Life Expectancy	Mechanical	1X10 ⁸ MIN. Operations
	Electrical	DC.10mV-10μA 1X10 ⁸ MIN. Operations (R.L.)

Coil Specifications

Contact Form	Part Number	Nominal Voltage DC. ± 10%(V)	Coil Resistance ± 10%()at20	Nominal Current (mA)	Must Operate Voltage MAX.(V)at20
1a	HFS-1A-24SW	24	1200	20.0	18.0
	HFS-1A-12SW	12	600	20.0	9.0
	HFS-1A-05SW	5	160	31.3	3.8

High Frequency Characteristics (Input Output Impedance 50)

Part Number	Item	Frequency		
		50MHz	100MHz	500MHz
HFS-1A-**SW	Return Loss	30db MIN.	25dB MIN.	19dB MIN.
	Isolation	48dB MIN.	40dB MIN.	25dB MIN.
	Insertion Loss	0.14dB MAX.	0.2dB MAX.	0.5dB MIN.

Dimensions /Terminal Identification (Unit:mm)

Dimensions	Terminal Identification
<p>weight about 1.5gr.</p>	<p>TOP VIEW</p>