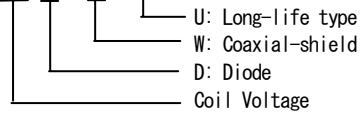


Small-Size Low Stray Capacitance Type (2a - Reed Relay)

Part number - Feature

● HFS-2AH-**(D) (W) (U)



● Low stray capacitance

Performance

| Specifications | Item | Standard |
|---------------------------|-----------------------------|--|
| Contact Specifications | Contact Form | 2a (make) |
| | Contact Rating | 10W |
| | Max. Switching Voltage | DC100V |
| | Max. Switching Current | 0.5 A |
| | Max. Carry Current | 1.0 A |
| | Contact Resistance | 150 mΩ MAX (Initial) |
| Electrical Specifications | Breakdown Voltage | Open Contacts DC. 200V (1 min) Contact to coil DC. 200V (1min) Contact to shield DC. 200V (1min) Coil to shield DC. 200V (1min) |
| | Insulation Resistance | Between all isolated pins $1 \times 10^{10} \Omega$ MIN (DC100V) |
| | Capacitance | Open Contacts 0.25pF MAX. (shield Guarding) |
| | Thermal Electromotive Force | 50 μ V 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°C to +60°C |
| Life Expectancy | Mechanical | 1X10 ⁸ MIN. Operations (U-type: 3X10 ⁸ MIN. Operations) |
| | Electrical | DC10mA-10 μ A 1X10 ⁸ MIN. Operations (R.L.) (U-type: 3X10 ⁸ MIN. Operations) |

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 |
|--------------|----------------------|---------------------------------------|--|-------------------------|--|
| 2a | HFS-2A-24(D) (W) (U) | 24 | 1600 | 15.0 | 16.8 |
| | HFS-2A-12(D) (W) (U) | 12 | 600 | 20.0 | 8.4 |
| | HFS-2A-05(D) (W) (U) | 5 | 160 | 31.2 | 3.8 |

High Frequency Characteristics (Input Output Impedance 50 Ω)

| Part Number | Item | Frequency | | |
|-----------------------|----------------|------------|-------------|------------|
| | | 10MHz | 50MHz | 100MHz |
| HFS-2AH-**(D) (W) (U) | Return Loss | 35dB MIN. | 30dB MIN. | 25dB MIN. |
| | Isolation | 45dB MIN. | 30dB MIN. | 27dB MIN. |
| | Insertion Loss | 0.1dB MAX. | 0.18dB MAX. | 0.2dB MIN. |

Dimensions /Terminal Identification (Unit:mm)

| Dimensions | Terminal Identification |
|---------------------------------|---|
| <p>(pin 15 for W type only)</p> | <p>TOP VIEW</p> <p>HFS-2AH-**(U)</p> <p>1- 8: CONTACT (N. O) 9-16: CONTACT (N. O) 2- 7: COIL 10: GUARD</p> <p>HFS-2AH-**(W) (U)</p> <p>1- 8: CONTACT (N. O) 9-16: CONTACT (N. O) 2- 7: COIL 10, 15: GUARD</p> <p>HFS-2AH-**(D) (U)</p> <p>1- 8: CONTACT (N. O) 9-16: CONTACT (N. O) 2- 7: COIL 10, 15: GUARD</p> |