



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

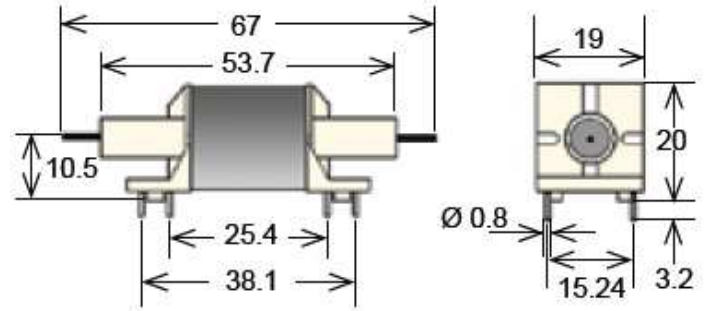
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HF Series Reed Relays



- Features: High RF/Power Relay, Patented External Electrostatic & Magnetic Shields
- Applications: Telecommunication, HF Tuned Antennas & Others
- Markets: Aerospace, Marine & Others

Part Description: **HF 00-0X-00-0**

| Nominal Voltage | Contact QTY | Contact Form | Switch Model | Pin Out |
|-----------------|-------------|--------------|--------------|------------|
| 05, 12, 24 | 1, 2 | A, B | 54 | 5, 6, 8, 9 |

| Customer Options | Switch Model | Unit |
|----------------------------------------------------------------------------------------------|------------------|------|
| Contact Data | 54 | |
| Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s | 25 | W |
| Switching Voltage (max.) DC or peak AC | 500 | V |
| Switching Current (max.) DC or peak AC | 1.5 | A |
| Carry Current (max.) DC or peak AC | 5.0 | A |
| Contact Resistance (max.) @ 0.5V & 50mA | 150 | mOhm |
| Breakdown Voltage (min.) According to EN60255-5 | 10 | kVDC |
| Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage | 3.0 | ms |
| Release Time (max.) Measured with no Coil Excitation | 1.5 | ms |
| Insulation Resistance (typ.) Rh<45%, 100V Test Voltage | 10 ¹⁰ | Ohm |
| Capacitance (typ.) @ 10kHz across open Switch | 2.5 | pF |

| Coil Data | | Coil Voltage (nom.) | Coil Resistance (typ.) | Pull-In Voltage (max.) | Drop-Out Voltage (min.) | Nominal Coil Power (typ.) |
|--------------|--------------|------------------------|---------------------------|---------------------------|----------------------------|------------------------------|
| Contact Form | Switch Model | | | | | |
| Unit | | VDC | Ohm | VDC | VDC | mW |
| 1A | 54 | 05 | 40 | 3.5 | 0.75 | 625 |
| | | 12 | 250 | 8.4 | 1.8 | 575 |
| | | 24 | 1,000 | 16.8 | 3.6 | 575 |
| 1B* | | 05 | 30 | 3.5 | 0.75 | 835 |
| | | 12 | 170 | 8.4 | 1.8 | 850 |
| | | 24 | 680 | 16.8 | 3.6 | 850 |

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C.

* Re-closure of Form B may occur if the max. coil voltage is exceeded. Coil polarity on Form B must be observed. Pin 2 is positive.

| Environmental Data | | Unit |
|--------------------------------------------------------|------------|------|
| Shock Resistance (max.) 1/2 sine wave duration 11ms | 50 | g |
| Vibration Resistance (max.) | 20 | g |
| Operating Temperature | -40 to 85 | °C |
| Storage Temperature | -40 to 105 | °C |
| Soldering Temperature (max.) 5 sec. max. | 260 | °C |

HF Reed Relay

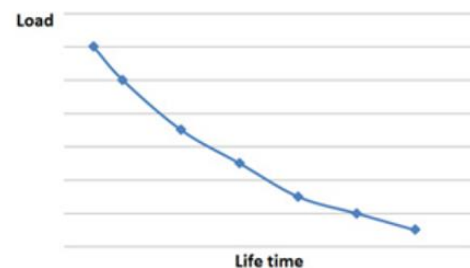


Handling & Assembly Instructions

- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields need to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

Life Test Data

*Load increase reduces life expectancy of Reed Switches



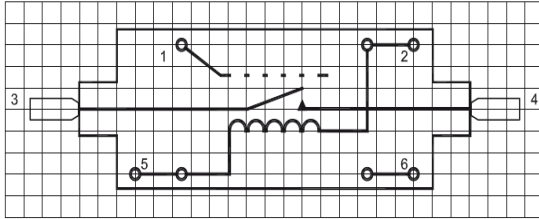
Glossary Contact Form

| | | |
|--------|------------------------------------------------------------------|--|
| Form A | NO = Normally Open Contacts SPST = Single Pole Single Throw | |
| Form B | NC = Normally Closed Contacts SPST = Single Pole Single Throw | |
| Form C | Changeover SPDT = Single Pole Double Throw | |



Pin Out

View from top of component
 2.54mm [0.10"] pitch grid



Pin # 5 must be positive for Form B version