## : ©hipsmall

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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The very high carry current capacity and high voltage isolation of this series is achieved through the use of multiple high vacuum reed switch contacts, ensuring a high level of performance and reliability. The two standard models will carry currents of 12 and 20Amps respectively at 30 MHz and feature silver plated, fully screened coil assemblies for ultra-low RF losses. Typical applications include over the horizon (OTH) HF radar systems and 1 kW base station transmitters.
Available as Form A (SPNO) only.

- Up to 20A Carry Current at 30MHz
- 6.5kV DC isolation across contacts
- Fully Screened Coil for Low RF Loss
- Cost Effective alternative to Vacuum Ceramic Devices
- Unique Design
- Suitable for 1 kW HF Transmitters

| CONTACT | UNITS | CONDITIONS | FRD32061 | FRD32062 |
| :---: | :---: | :---: | :---: | :---: |
| Action (form A, B or Latching) |  |  | A | A |
| Switching Voltage | V | DC max | 20 | 20 |
| Switching Current | A | DC max | 1 | 1 |
| Carry Current | A | RMS at 30MHz max | 12 | 20 |
| Isolation | kV | DC max | 6 | 6.5 |
| Capacitance (max.) | pF | coil/screen gnd | 2 | 2 |
| Lifetime | operations | dry switching | $10^{9}$ | $10^{9}$ |
|  |  | 24V, 1A | $10^{7}-10^{8}$ | $10^{7}-10^{8}$ |
| Contact Resistance | m0hms | maximum (typical) | 50 (10) | 50 (10) |
| Insulation Resistance | Ohms | minimum (typical) | $10^{10}\left(10^{13}\right)$ | $10^{10}\left(10^{13}\right)$ |
| COIL at $20^{\circ} \mathrm{C}$ |  |  |  |  |
| Nominal Working Voltage | VDC |  | 24 | 24 |
| Must Operate | VDC | max | 16 | 16 |
| Must Release | VDC | min | 4 | 4 |
| Nominal Resistance | Ohms | +/10\% | 430 | 270 |
| RF Screening |  |  | Full | Full |
| RF Screening Connection |  |  | Via Mtg Screws | Via Mtg Screws |
| RELAY |  |  |  |  |
| Operate time (incl. bounce) | ms |  | 5 | 5 |
| Release time | ms |  | 3 | 3 |
| Isolation contact to all other terminals | kV | DC max | 10 | 10 |
| Isolation coil to screen | kV | DC max | 0.5 | 0.5 |
| Capacitance contact to all other terms | pF | contacts open | 6.0 | 6.0 |
| ENVIRONMENTAL |  |  |  |  |
| Storage temperature range | ${ }^{\circ} \mathrm{C}$ |  | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |  |
| Operating temperature range | ${ }^{\circ} \mathrm{C}$ |  | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  |
| Weight | gm | typical | 76 | 108 |

Please refer to this document for circuit design notes:-
http://www.cynergy3.com/blog/application-notes-reed-relays-0
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## FRD30000

FRD32061


FRD32062


Please refer to this document for circuit design notes:-
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## IS09001 Certifed

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