

HE Series

查询HE12-1A83-02供应商

捷多邦，专业PCB打样工厂，24小时加急出货

MEDER electronic

High Voltage Reed Relays for PCB Mounting



DESCRIPTION

High voltage Reed Relays for PCB mounting suitable for switching up to 7.5 kVDC and breakdown voltage up to 10 kVDC. This series is available with high voltage cables. Standard relays available in 1 Form A and 1 Form B switching configurations.

FEATURES

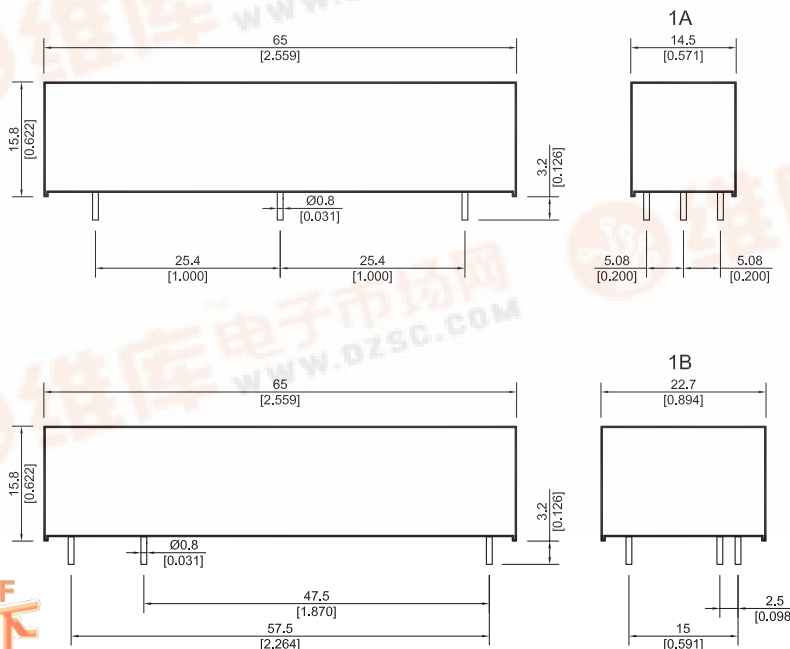
- Power switching up to 50 W available
- Special pin outs available
- 1 Form A and 1 Form B are standard
- Various case sizes and cable lengths available
- ≥ 26 mm spacing between contact and coil available

APPLICATIONS

- High voltage test sets
- Cable testers
- Medical equipment (RF surgery)

DIMENSIONS

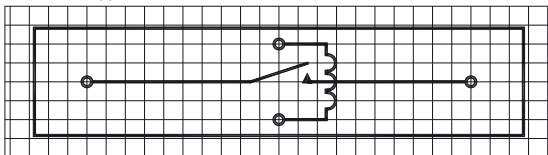
All dimensions in mm [inches]



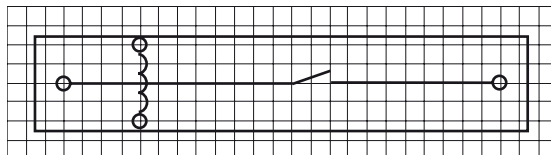
PIN OUT

View from top of component
2.54mm [0.100"] pitch grid

HExx-1A83-02

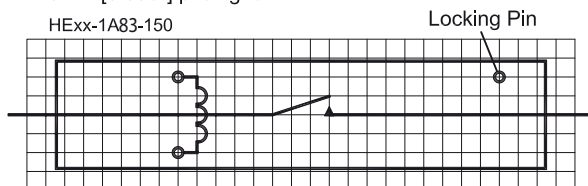


HExx-1A-83

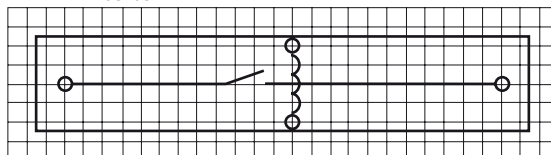


View from top of component
2.5mm [0.098"] pitch grid

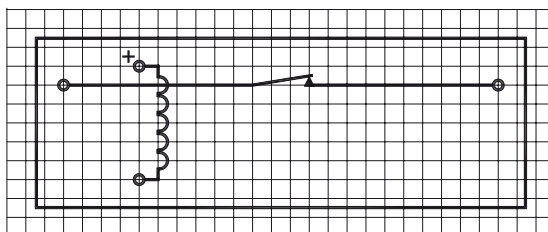
HExx-1A83-150



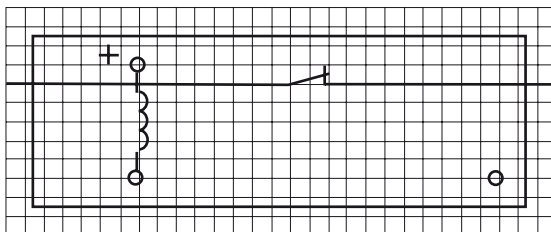
HExx-1A83-03



HExx-1B83xx*



HExx-1B83-150



* Version 2A available.

ORDER INFORMATION

Part Number Example

HE12 - 1A83 - 02

12 is the nominal voltage
1A is the contact form
83 is the switch model
02 is the pinout

| Series | Nominal Voltage | Contact Form | Switch Model | Pin Out |
|---------|-----------------|--------------|--------------|-------------|
| HE | XX - | XX | XX | |
| Options | 05, 12, 24 | 1 A | 83 | 02, 03, 150 |
| | | 1 B | | 150 |

High Voltage Reed Relays for PCB Mounting

RELAY DATA

| All Data at 20° C | Switch Model → Contact Form → | Switch 83 Form A / B | | | |
|---|---|--------------------------------------|------------|------|---------------------------|
| Contact Ratings | Conditions | Min. | Typ. | Max. | Unit |
| Switching Power | Any DC combination of V & A not to exceed their individual max.'s | | | 50 | W |
| Switching Voltage | DC or peak AC | | | 7.5 | kV |
| Switching Current | DC or peak AC | | | 3.0 | A |
| Carry Current | DC or peak AC | | | 5.0 | A |
| Static Contact Resistance | w/ 0.5 V & 10mA | | | 150 | mΩ |
| Insulation Resistance across Contacts | 100 volts applied | 10 ¹⁰ 10 ¹² | | | Ω |
| Breakdown Voltage across Contact | Voltage applied for 60 sec. min. | 10 10 | | | kVDC |
| Operation Time incl. Bounce | Measured w/ nominal voltage | | | 3.0 | ms |
| Release Time | Measured w/ no coil suppression | | | 1.5 | ms |
| Capacitance | at 10 kHz cross contact | | 0.8 5.0 | | pF |
| Life Expectancies | | | | | |
| Switching 5 V - 10 mA | DC only & <10 pF stray cap. | | 50 | | 10 ⁶ Cycles |
| For other load requirements please see our life test section. | | | | | |
| Environmental Data | | | | | |
| Shock Resistance | 1/2 sinus wave duration 11 ms | | | 30 | g |
| Vibration Resistance | From 10 - 2000 Hz | | | 10 | g |
| Ambient Temperature | 10°C/ minute max. allowable | -20 | | 70 | °C |
| Stock Temperature | 10°C/ minute max. allowable | -35 | | 105 | °C |
| Soldering Temperature | 5 sec. | | | 260 | °C |

COIL DATA

| Contact Form | Switch Model | Coil Voltage | | Coil Resistance | | | Pull-in Voltage | Drop-out Voltage | Nominal Coil Power |
|-------------------|--------------|--------------|------|-----------------|------|------|-----------------|------------------|--------------------|
| All Data at 20 °C | | VDC | | Ω | | | VDC | VDC | mW |
| | | Nom. | Max. | Min. | Typ. | Max. | Max. | Min. | Typ. |
| 1A | 83 | 5 | 7.5 | 45 | 50 | 55 | 3.5 | 0.75 | 500 |
| | | 12 | 16 | 225 | 250 | 275 | 8.4 | 1.8 | 575 |
| | | 24 | 30 | 900 | 1000 | 1100 | 18 | 3.5 | 575 |
| 1B * | | 5 | 7.5 | 90 | 100 | 110 | 3.5 | 0.75 | 250 |
| | | 12 | 16 | 360 | 400 | 440 | 8.4 | 1.8 | 360 |
| | | 24 | 30 | 1350 | 1500 | 1650 | 18 | 3.5 | 385 |

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.