PUBLIC PRODUCT DATASHEET

Relay Parameters

HGFR is part of the Mercury Wetted Relay range from SHR MiRelay. This English public datasheet has been rebuilt under the current SHR AUTOSENSOR TECH LIMITED identity for customer selection, sample purchase and RFQ support.

Product Family Mercury Wetted Relay	**Model** HGFR	**Purchase Path** Sample order or RFQ confirmation
Manufacturer SHR AUTOSENSOR TECH LIMITED	**Website** www.reed-relay.com	**Sales Contact** sales@reed-relay.com
Contact Form 1 Form A	**Contact Rating** Coil Resistance	**Contact Resistance** Max Switch Current
Insulation Resistance coil/contact	**Operate Time** Dielectric Strength coil/contact 2K VDC	**Operating Temperature** erature -20~+70 deg C

Key Features

- Insulation Resistance coil/contact
- High Voltage Reed Relay
- • High Power Mercury Reed Relay
- • Low Contact Resistance
- • Custom Design Available

Technical Specifications

Parameter	Value
Contact Form	1 Form A
Contact Rating	Coil Resistance
Contact Resistance	Max Switch Current
Insulation Resistance	coil/contact
Operate Time	Dielectric Strength coil/contact 2K VDC
Operating Temperature	erature -20~+70 deg C
Storage Temperature	erature -35 ~+105 deg C

Specification Notes

80 mohm

Max Carrying Current

Max Contact Resistance

Max Switch Current

Max Switch Voltage

Max Contact Rating

Coil Resistance

Coil Parameters

2K VDC

5.2 A(at 30 deg C)

2.0 A

1KV ACpeak/DC

50 W

Operate Time,incl.Bounce 2.0ms

Dielectric Strength coil/contact 2K VDC

Insulation Resistance coil/contact

Relay Parameters

1 Min Breakdown Voltage 2K VDC

P/N

TITLE

Approved by

Date

Designed by

Checked by Version: 01

1:1 Scale:

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High Voltage Reed Relay

28th,May,2022

Unit: mm Scale: 1/1[Outline Dimension]

Storage Temperature -35 ~+105 deg C

Nominal coil voltage 12 VDC

Max Operating voltage

Max Pull-in voltage

Min Drop-out voltage

Contact Parameters

Min Breakdown Voltage

2 Operating Temperature -20~+70 deg C

Hg w

et contacts must be mounted within 30°

16 VDC

9 VDC

1 VDC

400 ohm

Reset Time 2.0ms

Capacitance Across Contacts 0.3pF

1/1

5 sec.max 260 deg C

[Pin Layout]

[Top View]

Order Information

HGFR12-1A

• High Power Mercury Reed Relay

• Low Contact Resistance

• High Carry Current

• Excellent Lifetime Characteristics

• Custom Design Available

1.00E+12ohm

Contact Form 1 Form A

Note

of vertical plane.

Ordering & Engineering Support

For production projects, confirm coil voltage, contact form, switching voltage/current, load type, operating environment, target quantity and required approvals before release. Contact sales@reed-relay.com or +86 137 6157 1029 for datasheet confirmation, sample availability and cross-reference support.

Address: Room 311, No. 18 Hangchuan Road, Pudong New District, Shanghai, China

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