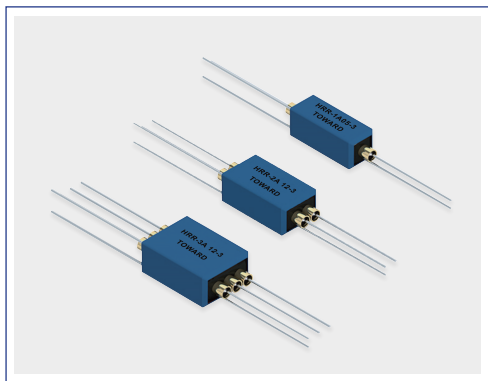




HRR SERIES

1A, 2A, 3A HI-VOLTAGE REED RELAY



KEY FEATURES

- Ultra Reed Relay
- External Magnetic and Electrostatic Shield
- High Reliability, Hermetically Sealed Contacts for Long Life

ORDER CODE

HRR - XXXX - X - X

(a) (b) (c) (d) (e)

- Ⓐ Contact Form: 1A = 1 Form A, 2A = 2 Form A, 3A = 3 Form A
- Ⓑ Nominal Coil Voltage: 1 = 24VDC, 2 = 12VDC, 4 = 5VDC
- Ⓒ Nil = No Electrostatic Shield, S = Electrostatic Shield
- Ⓓ Nil = Standard Type = 500VDC, 1 = 1KV, 3 = 3KV, 4 = 4KV
- Ⓔ Insulation Resistance: Nil = 10^{10} , 11 = 10^{11} , 12 = 10^{12} , 13 = 10^{13}

COIL DATA-STANDARD TYPE (at 20°C)

PART NUMBER	NOMINAL VOLTAGE DC $\pm 10\%$ [V]	COIL RESISTANCE $\pm 10\%$ [Ω]	NOMINAL CURRENT [mA]	MUST RELEASE VOLTAGE MIN. [V] @ 20°C	MUST OPERATE VOLTAGE MAX. [V] @ 20°C
HRR-1A / 2A	5	100	50	0.5	4.0
	12	400	30	1.2	8.8
	24	1600	15	2.0	18
HRR-3A	5	50	100	0.5	4.0
	12	300	40	1.2	8.8
	24	800	30	2.0	18

CONTACT SPECIFICATIONS (at 20°C)

ITEM	PERFORMANCE CHARACTERISTICS			
Relay Model	HRR-XXXS	HRR-XXXS-1	HRR-XXXS-3	HRR-XXXS-4
Contact Rating (Max DC / Peak AC)	50W	100W	100W	100W
Switching Voltage (Max DC / Peak AC)	300VAC / 350VDC	300VAC / 350VDC	1000VDC	1000VDC
Max. Switching Current (Max DC / Peak AC)	1.0A			
Max. Carry Current	2.5A			

ELECTRICAL SPECIFICATIONS

ITEM		PERFORMANCE CHARACTERISTICS			
Relay Model		HRR-XXXS	HRR-XXXS-1	HRR-XXXS-3	HRR-XXXS-4
Contact Resistance		150mΩ			
Dielectric Strengths (static)	Between Contacts	500VDC	1000VDC	3000VDC	4000VDC
	Contacts to Shield	2500VDC	2500VDC	2500VDC	2500VDC
	Contacts / Shield to Coil	2500VDC	2500VDC	2500VDC	2500VDC
Electrostatic Capacitance		0.5pF			
Insulation Resistance (except shield to coil)		10 ¹⁰ Ω			
Operate Time		0.6mS	0.6mS	1.0mS	1.0mS
Release Time		0.05mS	0.05mS	1mS	0.1mS

MECHANICAL SPECIFICATIONS

Relay Model	HRR-XXXS HRR-XXXS-1	HRR-XXXS-3 HRR-XXXS-4
Vibration	20G (0~2000Hz)	20G (10Hz~2000Hz)
Shock	30G	50G

ENVIRONMENTAL

Part Number	HRR-XXXS HRR-XXXS-1	HRR-XXXS-3 HRR-XXXS-4
Operating Temp.	-10°C ~ +60°C	
Storage Temp.	-10°C ~ +80°C	
Life Expectancy	AC / DC, 10mV-10μA 1X10 ⁸ 200VDC, 1mA, 1X10 ⁷	5VDC, 10mA 500X10 ⁶

DIMENSIONS (Unit: mm)

