

TMR Series

TMR Hi-Voltage Wet Reed Relays

Features

- High Carry Current Type of 20A.
- High breakdown voltage and axial-lead(tubular)type.
- Ultra long life span, mechanical life expectancy is more than 10^{10} operations.

Preliminary

Order Code

TMR-10XX_a

a: Nominal Coil Voltage: 0 5=5V DC, 12=12V DC, 24=24V DC

Coil Data-Standard Type1 Form A(at 20°C)

Part Number	Nominal Voltage DC $\pm 10\%$ [V]	Coil Resistance $\pm 10\%$ [ohm]	Nominal Current [mA]	Must Release Voltage MIN. [V] at 20°C	Must Operate Voltage MAX. [V] at 20°C
TMR-1005	5	120	41.7	0.8	3.8
TMR-1012	12	600	20.0	1.2	8.4
TMR-1024	24	2000	12.0	2.0	16.8

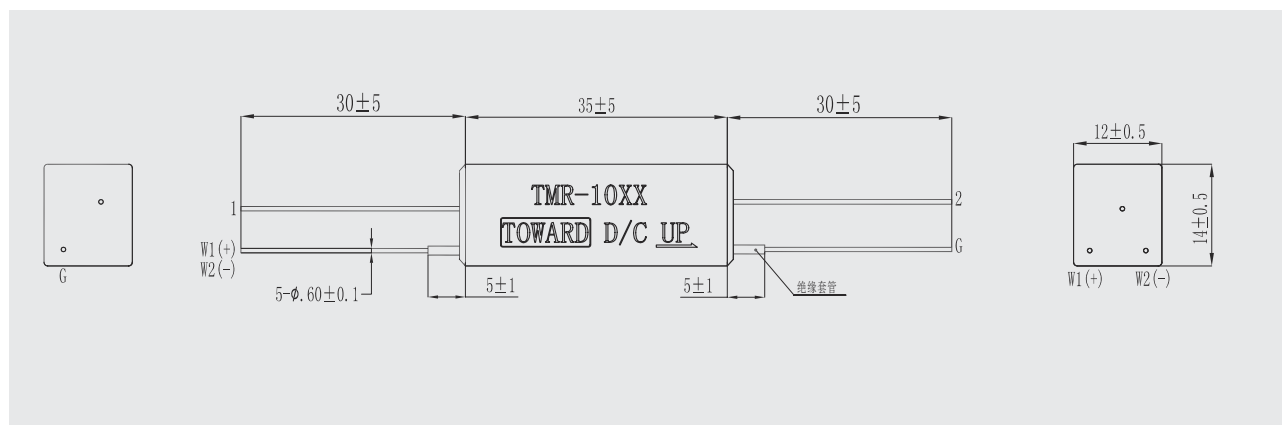
Contact Rating

Part Number	TMR-10XX
Contact Form	1FormA
Max. Switching Power	100W
Max. Switching Voltage	2000VDC When Switching DC.2000V, Current is 1.0mA max.
Max. Switching Current	2.0A
Max. Carry Current	10A(Continuous Current) 20A(pulse current: pulse width=50mS Max., Duty=10% Max., Operating temp.40°C Max) 30A(pulse current: pulse width=50mS Max., Duty=5% Max., Operating temp.40°C Max)

Specifications

Contact Resistance	50mΩ	
Operate Time	2.0 ms	
Release Time	2.0 ms	
Insulation Resistance	Between all isolated pins 1x10 ¹¹ Ω MIN(DC.100V)	
Breakdown Voltage	Between Contacts	4500VDC
	Contacts to Coil	4500VDC
	Contacts to Shield	4500VDC
	Coil to Shield	4500VDC
Capacitance	Across Open contacts 1.5pF Typ.(Shield Guarding)	
Vibration(0-55Hz.1.5mm)	20G	
Shock(11msec.1/2sin wave)	30G	
Operating Temperature	-10℃~+60℃	
Storage Temperature	-30℃~+80℃	
Life Expectancy Mechanical	1x10 ¹⁰ MIN Operations	
Thermal Electromotive Force	60.0 μ VMax.	

Dimensions(Unit:mm)



Wiring Diagrams (Top View)

