

Surface Mount Long Life 15X10⁸ Operation type (1a Reed Relay)

■ Part number - Feature

● RG1012W81



- Electrostatic and magnetic shielded for high frequency wave
- Long Life: 15 × 10⁸ Operations
- Low power consumption: Coil resistance 1000Ω

■ Performance

Specifications	Item	Standard
Contact Specifications	Contact Form	1 a (make)
	Contact Rating	30 W
	Max. Switching Voltage	DC. 200 V
	Max. Switching Current	0.5 A
	Max. Carry Current	1.0 A
	Contact Resistance	150mΩ MAX (Initial)
Electrical Specifications	Break Voltage	Between Contact DC. 250V Contacts to coil DC. 200V Contacts to shield DC. 200V Coil to shield DC. 200V
	Insulation Resistance	Between all isolated pins 1 × 10 ¹² Ω MIN. (DC. 100V)
	Capacitance	Across Open contacts 0.2pF Typ. (shield guarding) Contact to shield 1.5pF Typ.
	Thermal Electromotive Force	30 μV Typ.
	Operate Time	(incl. bounce) 0.5mS MAX. (at Nominal Voltage)
	Release Time	0.5mS MAX. (at Nominal Voltage)
Mechanical Specifications	Vibration	20 G (0~2KHz, 1.5mm)
	Shock	30 G (11mS, 1/2 Sin Wave)
Environment	Operating Temperature	-10°C~+60°C
Life Expectancy	Mechanical	15 × 10 ⁹ MIN. Operations
	Electrical	

■ Coil Specifications

Contact Form	Part Name	Nominal Voltage DC. ±10% (V)	Coil Resistance ±10% (Ω) at 20°C	Nominal Current (mA)	Must-Operate Voltage MAX. (V) at 20°C
1a	RG1012W81	12	1000	12.0	9.0

■ Dimensions/Terminal Identification (Unit:mm)

Dimensions	Terminal Identification

