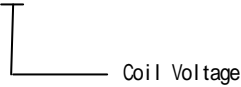


Ultra Small-Size Surface Mount Type (1a • Reed Relay)

Part number • Feature

USG1**W



Overall length 10 mm, for high frequency

Performance

Specifications	Item	Standard			
Contact Specifications	Contact Form	1a (make)			
	Contact Rating	10 W			
	Max. Switching Voltage	DC.50 V			
	Max. Switching Current	0.3 A			
	Max. Carry Current	0.5 A			
	Contact Resistance	200 m MAX (Initial)			
Electrical Specifications	Break Voltage	Open Contacts DC.200V (1 min) Contact to coil DC.200V (1min) Contact to shield DC.200V (1min)			
	Insulation Resistance	Between all isolated pins 1×10^{11} MIN (DC100V)			
	Capacitance	Open Contacts 0.15pF MAX. (Shield Guarding) Contact to shield 1.0pF MAX.			
	Thermal Electromotive Force	50μV TYP.			
	Operate Time	(incl. bounce) 0.4 mS MAX. (at Nominal Voltage)			
	Release Time	0.1 mS MAX. (at Nominal Voltage)			
Mechanical Specifications	Vibration	20G (0 to 2KHz 1.5mm)			
	Shock	30G (11mS 1/2 Sin Wave)			
Environment	Operating Temperature	-10 to +60			
Life Expectancy	Mechanical	1X10 ⁸ MIN. Operations			
	Electrical	DC.5V-10mA 1X10 ⁸ MIN. Operations (R.L.)			
High frequency characteristics (in-output impedance 50)	Return Loss	10MHz	20db MIN.	50MHz	15db MIN.
	Isolation		25 dB MIN.		20db MIN.
	Insertion Loss		0.3 dB MAX.		0.5db MAX.

Coil Specifications

Contact Form	Part Name	Nominal Voltage DC. ± 10%(V)	Coil Resistance ± 10%()at20	Nominal Current (mA)	Must Operate Voltage MAX.(V)at20
1a	USG105W	5	160	31.3	3.8
	USG112W	12	500	24.0	8.4

Dimensions /Terminal Identification (Unit:mm)

Dimensions	Terminal Identification
	<p>TOP VIEW</p> <p>2-5: CONTACT (N.O.) 3-4: COIL (R.) 1-6: GUARD</p>

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