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Sourcing Simplified



# KT-981

## GENERAL PURPOSE POWER RELAYS

**KYOTA**

**UL** <sub>us</sub> E331432  
29 × 12.7 × 15.7



- Small size, light weight.
- Low coil consumption.
- Switching capacity up to 20A.
- PC board mounting.
- Suitable for household electrical appliances, automation system, electrical equipment, instrument, meter, telecommunication facilities and remote control facilities.

### CONTACT DATA

Contact Form	1A/1C/1CK/2A/2C
Contact Material	AgCdO AgSnO <sub>2</sub>
Load	Resistive load(COS Φ=1)
Contact Ratings	1A : 12 A 250VAC, 30VDC 1C : 12A 250VAC, 30VDC 1CK: 16A 250VAC, 30VDC 2A : 8A 250VAC, 30VDC 2C : 8A 250VAC, 30VDC
Max Switching Voltage	60VDC 380VAC
Max Switching Current	16A
Max Switching Power	480W 4000VA 2C:2×150W 2×1250VA
Contact Resistance	<50mΩ
Operation Life	Electrical 100,000 Operations(at30 Operations/minute)
	Mechanical 10,000,000 Operations(at300 Operations/minute)

### CHARACTERISTICS DATA

Insulation Resistance	1000M Ω Min at 500VDC
Dielectric Strength	Between Open Contacts 50Hz 1000V
	Between Contacts and Coil 50Hz 5000V
Operate Time	<10
Release Time	<5
Temperature Range	-55~100℃ -55~125℃
Shock Resistance	100m/s <sup>2</sup> 11ms
Vibration Resistance	10-55Hz double amplitude 1.5mm
Solderability	235℃ ± 2℃ 3 ± 0.5s
Ambient Temperature	-40~85℃
Humidity	85% (at 40℃)
Weight	Approx 12g

### COIL DATA

at 20℃

Coil Power 0.41W

Nominal Voltage (VDC)	Max Coil Voltage (VDC)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Coil Resistance (Ω ±10%)
5	6.5	3.5	0.5	61
6	7.8	4.2	0.6	88
9	11.7	6.3	0.9	198
12	15.6	8.4	1.2	351
24	31.2	16.8	2.4	1405
48	62.4	33.6	4.8	5620

Coil Power 0.72W

Nominal Voltage (VDC)	Max Coil Voltage (VDC)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Coil Resistance (Ω ±10%)
5	6.5	3.5	0.5	35
6	7.8	4.2	0.6	50
9	11.7	6.3	0.9	113
12	15.6	8.4	1.2	200
24	31.2	16.8	2.4	800
48	62.4	33.6	4.8	3200

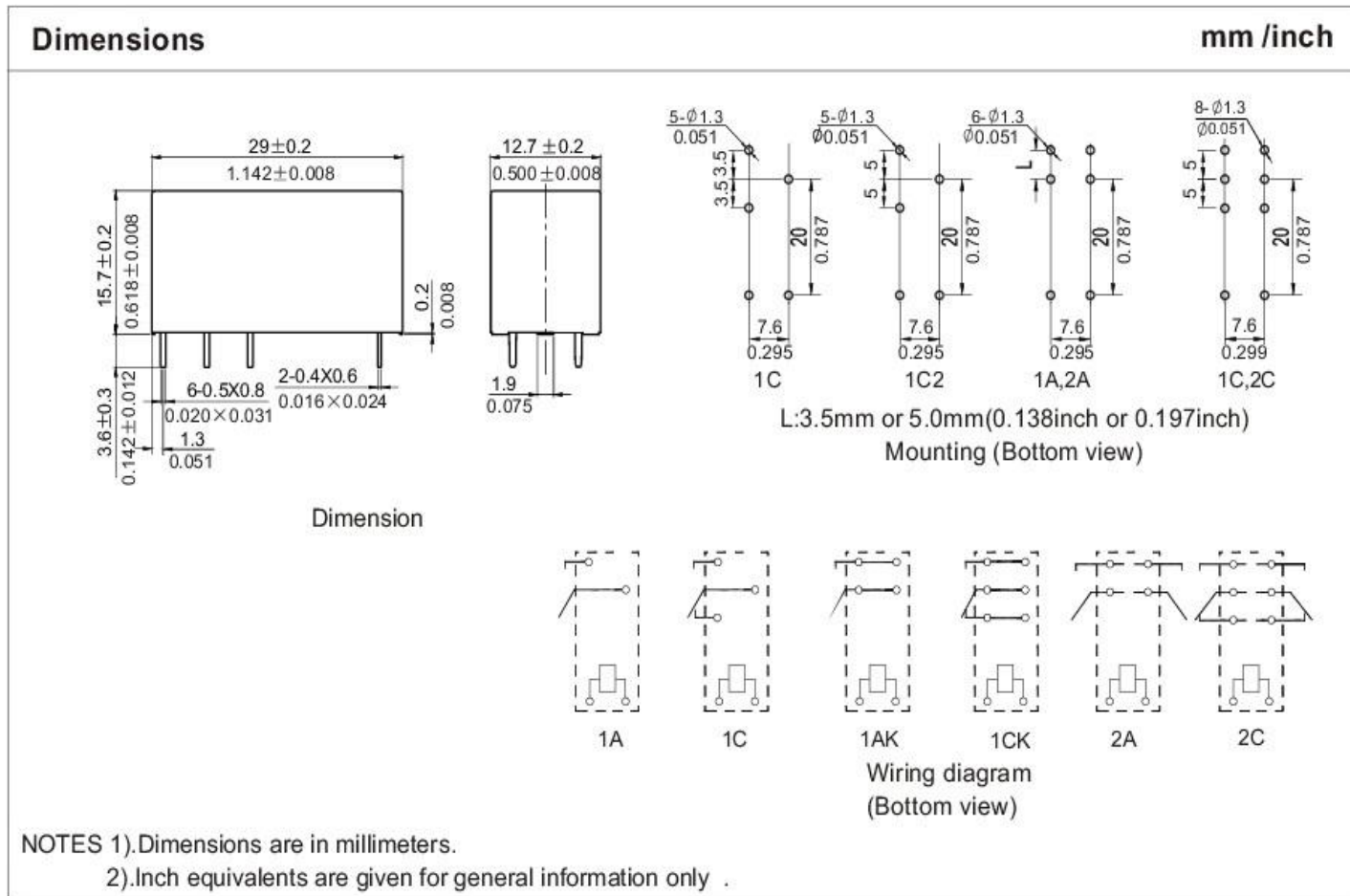
### CAUTION:

1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Maximum operating voltage and minimum release voltage are for test purposes only and are not to be used as design criteria.

### APPROVED STANDARDS

UL & cUL	1: 16A 250VAC, 30VDC 2: 8A 250VAC, 30VDC
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## OUTLINE DIMENSIONS, WIRING DIAGRAM AND LAYOUT



## ENGINEERING DATA

