

# JT7520

# SUBMINIATURE HIGH POWER RELAY



File No:R 50462184



File No:CQC20002241557



## Features

- 16A switching capability
- High sensitive: 200mW
- Low height, flat construction
- PCB layouts available
- UL insulation system:Class F
- Product in accordance to IEC60335-1 available

## CONTACT DATA

Contact arrangement	1A
Contact resistance <sup>1)</sup>	100mΩ max.(at 1A 6VDC)
Contact material	AgSnO <sub>2</sub>
Contact rating (Res.load)	16A 250VAC
Max.switching voltage	250VAC
Max.switching current	16A
Max.switching power	4000VA
Mechanical endurance	1 x 10 <sup>6</sup> ops
Electrical endurance	1A type:1 x 10 <sup>5</sup> ops(16A 250VAC, Resistive load,at room temp.,1s on 9s off)

**Notes:** 1) The data shown above are initial values.

2) For plastic sealed type, the venting-hole should be opened in electrical endurance test.

## CHARACTERISTICS

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil&contacts	2500VAC 1min
	Between open contacts	1000VAC 1min
Operate time(at nomi.volt.)		15ms max.
Release time(at nomi.volt.)		5ms max.
Shock resistance	Functional	98m/s <sup>2</sup>
	Destructive	980m/s <sup>2</sup>
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		5% to 85% RH
Ambient temperature		-30°C to 85°C
Termination		PCB
Unit weight		Approx. 10g
Construction		Plastic sealed

**Notes:** 1) The data shown above are initial values.

2) Please find coil temperature curve in the characteristic curves below.

## COIL

Coil power	Approx. 200mW
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## COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC <sup>1)</sup>	Drop-out Voltage VDC <sup>1)</sup>	Max. Voltage VDC <sup>2)</sup>	Coil Resistance Ω
3	≤2.40	≥0.3	3.9	45 x (1±10%)
5	≤4.00	≥0.5	6.5	125 x (1±10%)
6	≤4.80	≥0.6	7.8	180 x (1±10%)
9	≤7.20	≥0.9	11.7	405 x (1±10%)
12	≤9.60	≥1.2	15.6	720 x (1±10%)
24	≤19.2	≥2.4	31.2	2880 x (1±10%)

**Notes:** 1)The data shown above are initial values.

2)\*Maximum Voltage refers to the maximum voltage which relay coil could endure in a short period of time.

## SAFETY APPROVAL RATINGS

CQC	16A 250VAC 85°C
TUV	16A 250VAC 85°C 16A 250VAC 105°C

**Notes:** 1)All values unspecified are at room temperature.

2)Only typical loads are listed above.Other load specifications can be available upon request.



JINTIAN RELAY

ISO9001、ISO14001、OHSAS18001 CERTIFIED

## ORDERING INFORMATION

**JT7520 012 -1 H S X T**

### Type

**Coil voltage** 3, 5, 6, 9, 12, 24VDC

**Contact group** 1 : 1 group

**Contact arrangement** H: 1 Form A

**Construction**<sup>1)2)</sup> S: Plastic sealed

**Contact capacity** Nil: Standard type 0.2W

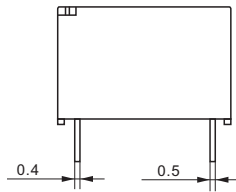
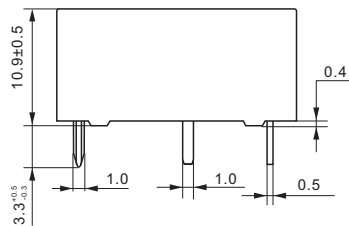
**Contact material** T: AgSnO<sub>2</sub>

**Notes:** 1) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.  
2) The customer special requirement express as special code after evaluating by JINTIAN.

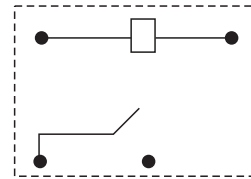
## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

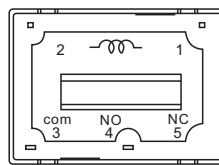
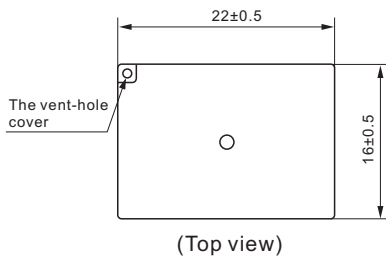
Outline Dimensions



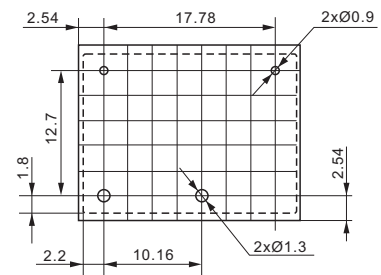
Wiring Diagram  
(Bottom view)



PCB Layout  
(Bottom view)



(Bottom view)



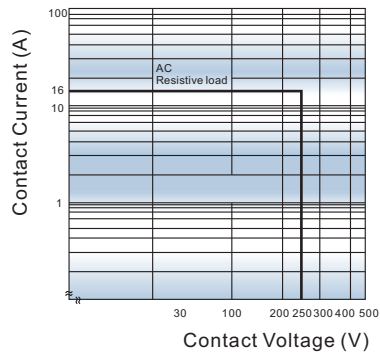
Remark: 1) The pin dimension of the product outline drawing is the size before tinning (it will become larger after tinning), and the mounting hole size is the recommended design size of the PCB board hole. The specific PCB board hole design size can be mapped and adjusted according to the actual product.

2) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1$ mm, tolerance should be  $\pm 0.2$ mm; outline dimension  $> 1$ mm and  $\leq 5$ mm, tolerance should be  $\pm 0.3$ mm; outline dimension  $> 5$ mm, tolerance should be  $\pm 0.4$ mm.

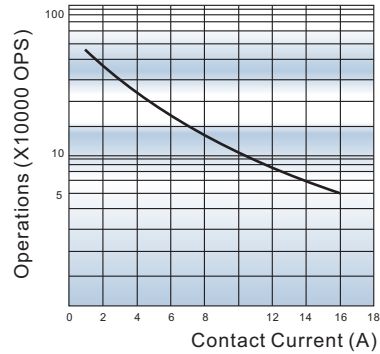
3) The tolerance without indicating for PCB layout is always  $\pm 0.1$ mm.

## CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER

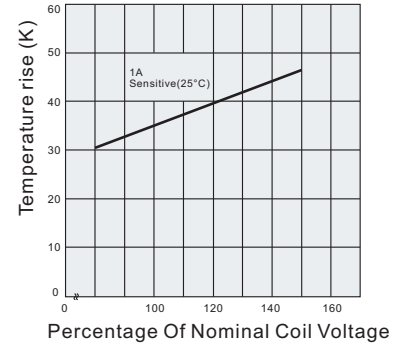


ENDURANCE CURVE



**Test conditions:**  
NO, 16A 250VAC, Resistive load,  
room temp., 1s on 9s off

COIL TEMPERATURE RISE



**Test conditions:** 85°C, 16A  
**Mounting distance:** 25mm

### Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact JINTIAN for the technical service. However, it is the user's responsibility to determine which product should be used only.