

● Features

- 20A switching capability
- Heavy load up to 5000VA
- 4.5KV dielectric strength (between coil and contacts)
- PCB & QC layouts available
- Dimensions: 30.4 x 16.0 x 23.3 mm (PCB & QC)  
30.4 x 16.0 x 29.8 mm (Bracket)



● Application

- Home Appliances / Ideal for motor switching / A/C Control / Refrigerator / Electronic Water Heater, etc.

● Contact Data

Contact Arrangement	1A
Contact Material	Ag Alloy
Contact Rating (Resistive Load)	Rated Load: 20A inrush current: 80A 250VAC (COS $\theta$ =0.7)
Max. Switching Power	5000VA
Max. Switching Voltage	250VAC
Max. Switching Current	20A
Contact Resistance	30m $\Omega$ (at 1A 6VDC)
Electrical Endurance	1x10 <sup>5</sup>
Mechanical Endurance	2x10 <sup>6</sup>

Note: 1) The data shown above are initial values.

● Coil Parameter (at 23°C)

Coil Voltage (VDC)	Coil Resistance ( $\Omega \pm 10\%$ )	Pickup Voltage(max) (VDC)	Release Voltage(max) (VDC)	Coil Power Consumption (W)
5	27.8	3.5	0.5	0.90
12	160	9.00	1.2	
24	640	18.0	2.4	
48	2560	36.0	4.8	

Note: 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.

● Operation Condition

Insulation Resistance		1000M $\Omega$ (at 500VDC)
Dielectric Strength	Between Contacts	1000VAC 1min
	Between Contact and Coil	4500VAC 1min
Shock Resistance	Functional	196m/s <sup>2</sup>
	Endurance	980m/s <sup>2</sup>
Vibration Resistance		10~55Hz, DA: 1.5mm
Ambient Temperature		-40 ~ +85°C
Operate Time		$\leq 20$ ms
Release Time		$\leq 10$ ms
Humidity		85%
Weight		Approx. 23g

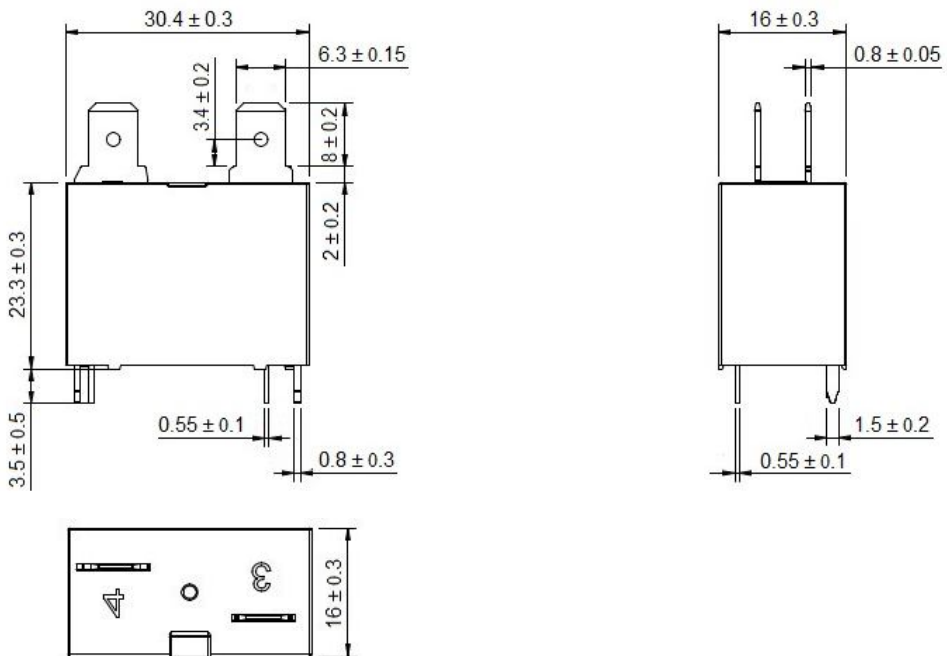
● Ordering Information

	JQX-102F	L	-12D	-A
<b>Model</b>				
<b>Structure</b>	A: PCB and Quick connect type L: PCB type B: Bracket cover			
<b>Coil Voltage</b>	5, 12, 24, 48VDC			
<b>Contact Arrangement</b>	A: 1 Form A			

● Dimensions (UNIT: mm)

Outline Dimensions

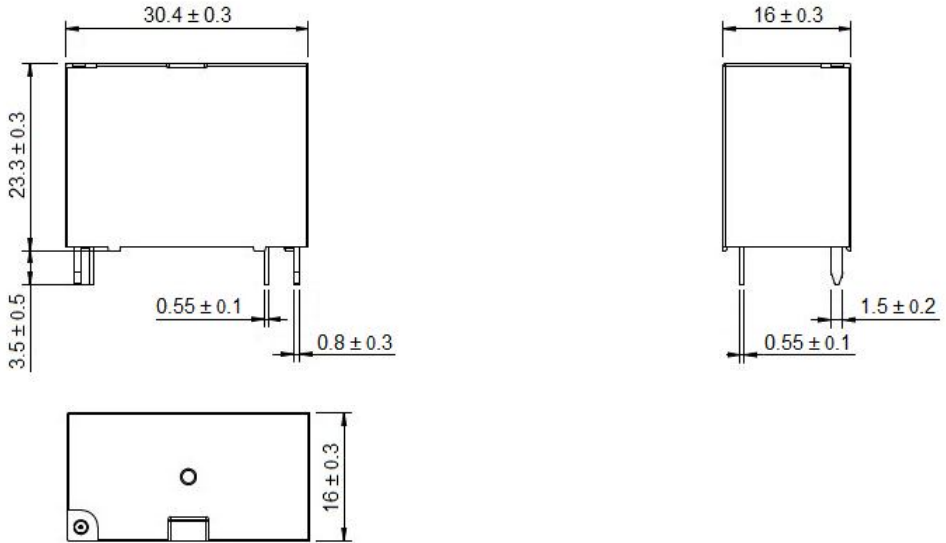
Standard type: CEA type



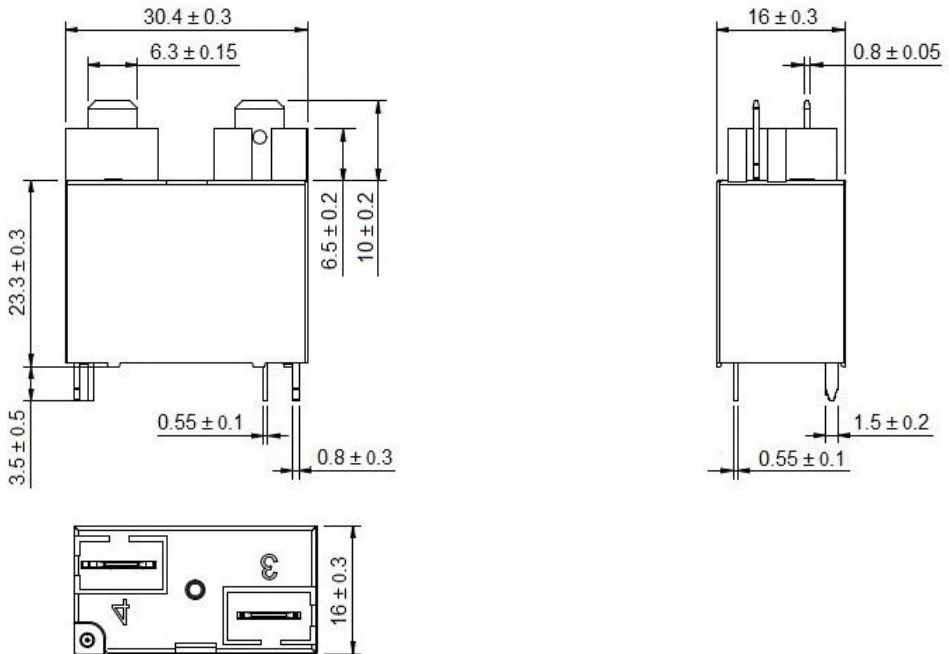
● Dimensions (UNIT: mm)

Outline Dimensions

PCB type: CEL type

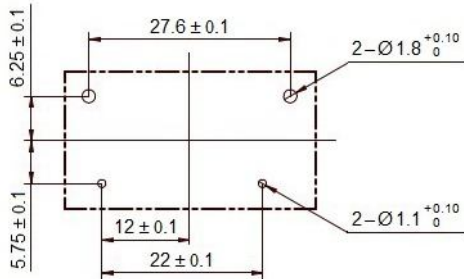


Bracket cover type: CEB type

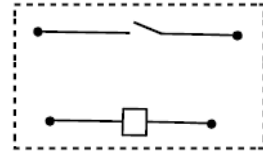


● Dimensions (UNIT: mm)

Mounting (Bottom views)



Wiring Diagram (Bottom views)



- Remark: 1) 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  $\pm 0.5$ mm.
- 2) The tolerance without indicating for PCB layout is always  $\pm 0.1$ mm.