

# JZC-43F

## SUBMINIATURE INTERMEDIATE POWER RELAY



File No.: E133481



File No.: 40002220



File No.:CQC02001001935



### Features

- Extremely small footprint utilizing PCB area
- Provides 10-KV impulse withstand voltage (Coil to Contact)
- Highly efficient magnetic circuit for high sensitivity(200 mw)

### CONTACT DATA

Contact Arrangement	1A
Initial Contact Resistance Max.	100mΩ (at 1A/ 24VDC)
Contact Material	See ordering info.
Contact Rating (Res. Load)	3A 250VAC, 3A 30VDC
Max. switching voltage	277VAC, 30VDC
Max. switching current	5A
Max. switching power	831VA, 90W
Mechanical life	10 <sup>7</sup> OPS
Electrical life	1 x 10 <sup>5</sup> OPS (at 3A, 250VAC) 2 x 10 <sup>5</sup> OPS (at 3A 125VAC, 3A 30VDC) 5 x 10 <sup>4</sup> OPS (at 5A, 250VAC)

### CHARACTERISTICS

Initial Insulation Resistance	1000MΩ 500VDC
Dielectric Strength	Between coil and Contacts 4000VAC 1min
	Between open contacts 750VAC 1min
Surge Voltage between Contacts and coil	10KV (1.2X50μs)
Operate time (at nomi. Volt.)	Max. 10ms
Release time (at nomi. Volt.)	Max. 10ms
Temperature rise (at nomi. Volt.)	45°C
Shock Resistance	Functional 100 m/s <sup>2</sup>
	Destructive 1000 m/s <sup>2</sup>
Vibration Resistance	1.5mm, 10 to 55Hz
Humidity	35% to 85%
Ambient temperature	-40°C to +85°C
Termination	PCB
Unit weight	Approx. 4g
Construction	Sealed IP67

### COIL

Coil power	200mW
Coil Voltage	4.5 to 24VDC
Coil Resistance	See table

### COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC(at 20°C)	Coil Resistance Ω
4.5	3.38	0.23	5.85	101 ± 10%
5	3.75	0.25	6.50	125 ± 10%
6	4.50	0.30	7.80	180 ± 10%
9	6.75	0.45	11.7	405 ± 10%
12	9.00	0.60	15.6	720 ± 10%
18	13.5	0.90	23.4	1620 ± 10%
24	18.0	1.20	31.2	2880 ± 10%

### SAFETY APPROVAL RATINGS

UL	3A 250VAC
	3A 30VDC
	3A 125VAC
VDE	3A 250VAC
	5A 250VAC

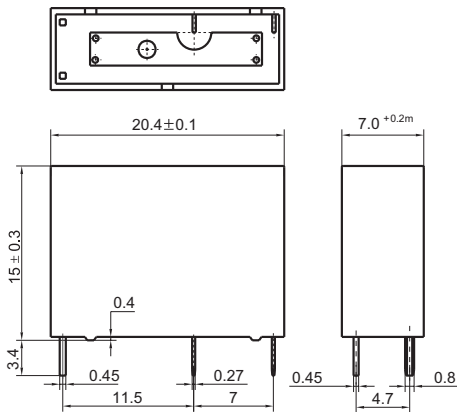


## ORDERING INFORMATION

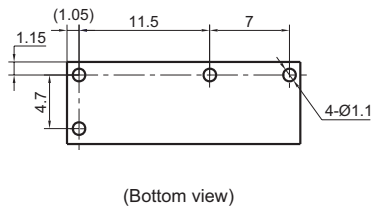
Type	JZC-43F / 012	H	S	T
Coil voltage	4.5, 5, 6, 9, 12, 18, 24VDC			
Contact arrangement	1H:1 Form A			
Structure	S: Sealed IP67			
Contact material	2:AgCdO T: AgSnO <sub>2</sub> G: Au plated Nil:AgNi			

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

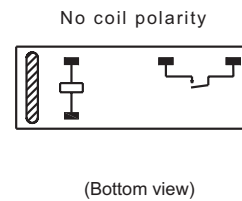
Outline Dimensions



PCB layout  
(Tolerance ±0.1mm)



Wiring Diagram



## CHARACTERISTICS CURVE

