

# JQC-7FD

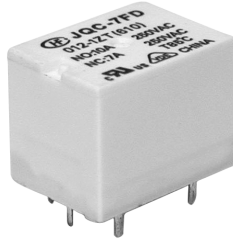
# SUBMINIATURE HIGH POWER RELAY



File No.:E133481



File No.: 40008374



## Features

- 1A & 1C configuration
- High performance / Low profile
- Dielectric strength coil to contacts 2500V  
VDE 0631 / 0700
- Flammability class according to UL94,V-0
- CTI 250

## CONTACT DATA

|                            |                          |                                  |
|----------------------------|--------------------------|----------------------------------|
| Contact Arrangement        | 1A                       | 1C                               |
| Initial Contact Resistance | 100m Ω<br>(at 1A 24VDC)  |                                  |
| Contact Material           | AgCdO,AgSnO <sub>2</sub> |                                  |
| Contact Rating             | 10A / 250VAC             | NO:10A /250VAC<br>NC: 7A/ 250VAC |
| Max. switching voltage     | 250VAC/30VDC             |                                  |
| Max. switching current     | 10A                      |                                  |
| Max. switching power       | 2500VA 300W              | 2500VA 210W                      |
| Mechanical life            | 1 x 10 <sup>7</sup> OPS  |                                  |
| Electrical life            | 1 x 10 <sup>5</sup> OPS  |                                  |

## CHARACTERISTICS

|                                   |                           |                                 |
|-----------------------------------|---------------------------|---------------------------------|
| Initial Insulation Resistance     |                           | 100M Ω (500VDC)                 |
| Dielectric Strength               | Between coil and Contacts | 2500VAC,1sec.<br>2000VAC, 1min. |
|                                   | Between open contacts     | 750VAC, 1min.                   |
| Operate time (at nomi. Volt.)     |                           | Max. 10ms                       |
| Release time (at nomi. Volt.)     |                           | Max. 5ms                        |
| Temperature rise (at nomi. Volt.) |                           | 60°C                            |
| Humidity                          |                           | 35 to 85%RH                     |
| Shock Resistance                  | Functional                | 98 m/s <sup>2</sup>             |
|                                   | Destructive               | 980 m/s <sup>2</sup>            |
| Ambient temperature               |                           | -40°C to +85°C                  |
| Vibration Resistance              |                           | 1.5mm, 10 to 55Hz               |
| Termination                       |                           | PCB                             |
| Unit weight                       |                           | Approx. 14g                     |
| Construction                      |                           | Sealed IP67<br>& Unsealed       |

## COIL

|            |       |
|------------|-------|
| Coil power | 360mW |
|------------|-------|

## COIL DATA

| Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Max. allowable Voltage VDC(at 25°C) | Coil Resistance Ω                |
|---------------------|---------------------|----------------------|-------------------------------------|----------------------------------|
| 3                   | 2.3                 | 0.3                  | 3.9                                 | 25 ± 10%                         |
| 5                   | 3.80                | 0.5                  | 6.5                                 | 70 ± 10%                         |
| 6                   | 4.50                | 0.6                  | 7.8                                 | 100 ± 10%                        |
| 9                   | 6.80                | 0.9                  | 11.7                                | 225 ± 10%                        |
| 12                  | 9.00                | 1.2                  | 15.6                                | 400 ± 10%                        |
| 18                  | 13.5                | 1.8                  | 23.4                                | 900 ± 10%                        |
| 24                  | 18.0                | 2.4                  | 31.2                                | 1600 ± 10%                       |
| 48                  | 36.0                | 4.8                  | 62.4                                | 6200<br>(6400available)<br>± 10% |

## SAFETY APPROVAL RATINGS

|     |    |                                                       |
|-----|----|-------------------------------------------------------|
| UL  | 1A | 10A 277VAC @85°C<br>10A 28VDC @85°C                   |
|     | 1C | 12A 125VAC @85°C<br>7A 250VAC @85°C<br>7A 28VDC @85°C |
| VDE | 1A | 10A 250VAC @85°C                                      |
|     | 1C | NC: 7A 250VAC @85°C<br>NO:10A 250VAC @85°C            |



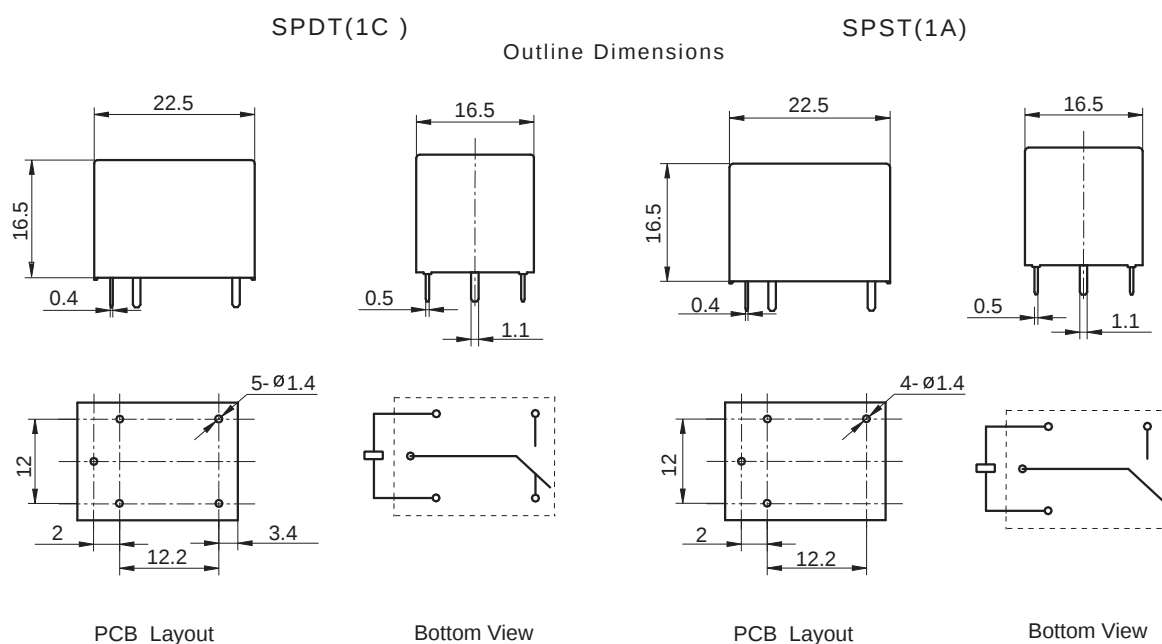
HONGFA RELAY  
ISO9001\*ISO/TS16949 \*ISO14001 CERTIFIED

VERSION: EN02-20040601

## ORDERING INFORMATION

|                                |                                  |     |    |   |   |   |     |
|--------------------------------|----------------------------------|-----|----|---|---|---|-----|
| Type                           | JQC-7FD /                        | 012 | 1H | S | T | F | XXX |
| Coil voltage                   | 5, 6, 9, 12, 18, 24, 48VDC       |     |    |   |   |   |     |
| Contact arrangement            | 1H:1 Form A 1Z:1 Form C          |     |    |   |   |   |     |
| Structure                      | S: Sealed IP67 Nil: Unsealed     |     |    |   |   |   |     |
| Contact Material               | T: AgSnO <sub>2</sub> Nil: AgCdO |     |    |   |   |   |     |
| Insulation Standard            | F: Class F Nil: Class B          |     |    |   |   |   |     |
| Customer special request code: | (For example: 610- white cover)  |     |    |   |   |   |     |

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



## CHARACTERISTICS CURVE

