JQC-3FF SUBMINIATURE HIGH POWER RELAY

File No.:R2034012

File No.:E133481

File No.:CQC02001001953

Features

- Extremely low cost
- SPST-NO & SPDT configuration
- Subminiature, standard PCB layout
- Sealed and Unsealed types available

CONTACT DATA

Contact Arrangement	1A	1C
Initial Contact Resistance Max.		100mΩ (1A 6VDC)
Contact Material		Silver Alloy
Contact Rating (Res. Load)	10A 125VAC	7A/30VDC 7A/250VAC
Max. switching voltage		277VAC/30VDC
Max. switching current	12A	10A
Max. switching power		2770VA 240W
Mechanical life		1 x 10^7OPS
Electrical life		1 x 10^5OPS

CHARACTERISTICS

Initial Insulation Resistance		100MΩ ,500VDC
Dielectric Strength	Between coil and Contacts	1500Vrms, 1min
	Between open contacts	750Vrms, 1min
Operate time (at nomi. Volt.)		10ms
Release time (at nomi. Volt.)		5ms
Temperature rise (at nomi. Volt.)		60˚C max.
Shock Resistance	Functional	98 m/s²(10g)
	Destructive	980 m/s²(100g)
Vibration Resistance		1.5mm, 10 to 55Hz
Humidity		35% to 85%RH
Ambient temperature		-40˚C to 85˚C
Termination		PCB
Unit weight		Approx. 10g
Construction		Sealed & Unsealed

COIL

Coil power	0.36W

COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC(at 25˚C)	Coil Resistance Ω
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	6400 ± 10%

SAFETY APPROVAL RATINGS

UL	1 Form C	10A 277 VAC 10A 120VAC 1/2 HP 125/250VAC
	1 Form A	10A 277VAC TV-5 120VAC 15A 125VAC 120VAC 125VAC
TUV	1 Form C	10A 277VAC 12A 125VAC cos phi=1 5A 250VAC cos phi=1
	1 Form A	10A 277VAC 12A 125VAC cos phi=1 5A 250VAC cos phi=1

ORDERING INFORMATION

	JQC-3FF	/	012	1H	S	T	F

Type

Coil voltage 5, 6, 9, 12, 18, 24, 48VDC

Contact arrangement **1H**:1 Form A (SPST-NO) **1Z**:1 Form C (SPDT)

Structure **Nil**: Unsealed **S**: Sealed

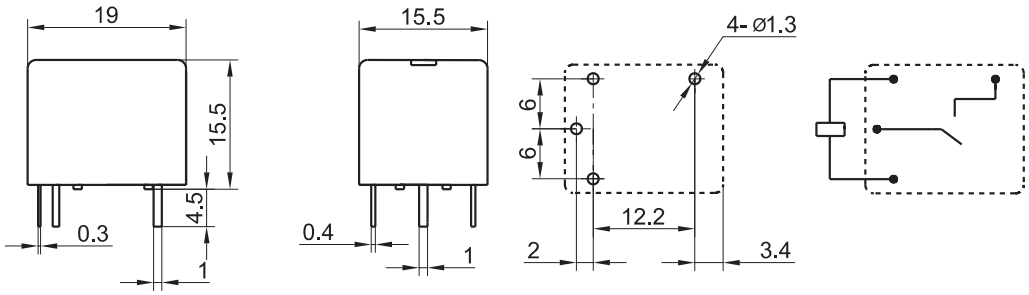
Contact Material **T**: AgSnO

Insulation System **Nil**: ClassB 130˚C **F**: ClassF 155˚C

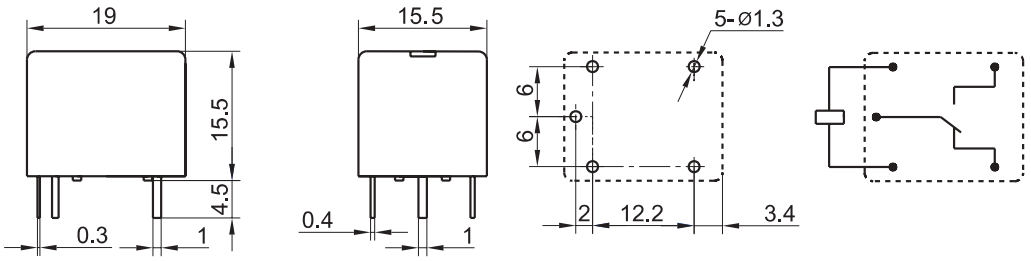
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline Dimensions PCB layout Wiring Diagram

1A



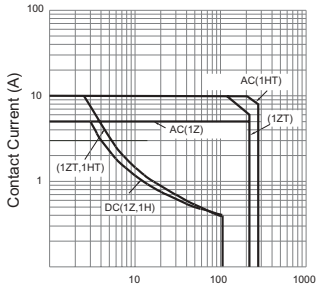
1C



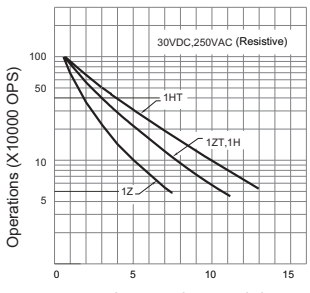
Bottom view

CHARACTERISTICS CURVE

MAXIMUM SWITCHING POWER



LIFE CURVE



COIL TEMPERATURE RISE