JZC-7FF SUBMINIATURE HIGH POWER RELAY

c UL us
File No:E319069

CQC
File No:08001024148

Features

- 10A switching capability
- 1From A and 1From C configurations
- Plastic sealed and flux profed types available
- UL insulation system:Class F available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions:(22.5 x 16.5 x 16.5)mm

CONTACT DATA

Contact arrangement	1A,1C
Contact resistance	100mΩ max.(at 1A 6VDC)
Contact material	$AgSnO_2$,AgCe
Contact rating (Res.load)	5A 250VAC/30VDC
	10A 250VAC/28VDC
Max.switching voltage	250VAC/30VDC
Max.switching current	10A
Max.switching power	2400VA/280W
Mechanical endurance	1 x 10^7 OPS
Electrical endurance	1HT,1ZT type:1 x 10^4OPS(10A 250VAC, Resistive load,Room temp,1s on 9s off) 1H,1Z type:1 x 10^4 OPS(5A 250VAC Resistive load,Room temp,1s on 9s off)

CHARACTERISTICS

Insulation resistance		100MΩ(at 500VDC)
Dielectirc strength	Between coil&contacts	1500VAC 1min
	Between open contacts	750VAC 1min
Operate time(at nomi.volt.)		10ms max.
Release time(at nomi.volt.)		5ms max.
Shock resistance	Functional	98m/s²
	Destructive	980m/s²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		5% to 85% RH
Ambient tenperature		-40℃ to 70℃
Termination		PCB
Unit weight		Approx.9.5g
Construction		Plastic sealed, Flux proofed

Notes: 1)The data shown above are intial values.
2)Please find coil temperature curve in the characteristic curves below.
3)UL insulation system:Class F,Class B,Class A.

COIL

Coil power	5VDC to 24VDC:Approx.360mW
	48VDC:Approx.510mW

COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC max.	Dorp-out Voltage VDC min.	Max. Voltage VDC*	Coil Resistance Ω
3	2.40	0.3	3.6	25 x (1±10%)
5	4.00	0.5	6.0	70 x (1±10%)
6	4.80	0.6	7.2	100 x (1±10%)
9	7.20	0.9	10.8	225 x (1±10%)
12	9.60	1.2	14.4	400 x (1±10%)
18	14.4	1.8	21.6	900 x (1±10%)
24	19.2	2.4	28.8	1600 x (1±10%)
48	38.4	4.8	57.6	4500 x (1±10%)

Notes: 1)*Maximum Voltage refers to the maximum voltage which relay coil could endure in a short period of time.

SAFETY APPROVAL RATINGS

UL/CUL (AgCe)	1 Form A	10A 277VAC 6A 30VDC
	1 Form C	NO:10A 277VAC NO/NC:5A 277VDC NO:5A 30VDC NC:2FLA 4LRA 120VAC
UL/CUL ($AgSnO_2$)	1 Form A	12A 277VAC 12A 28VDC
	1 Form C	12A 277VAC 12A 28VDC

Notes: 1)All values unspecified are at room temperature.
2)Only typical loads are listed above.Other load specificationgs can be avaliable upon request.

ORDERING INFORMATION

JT7FF / 012 -1H T S F (XXX)

Type			
Coil voltage	3,5,6,9,12,18,24,48VDC		
Contact arrangement	**H**:1Form A	**Z**:1Form C	
Contact material	**T**:$AgSnO_2$(10A)	**Nil**:AgCe(5A)	
Construction[1)2)]	**S**:Plastic sealed	**Nil**:Flux proofed	
Insulation standard	**F**:Class F	**B**: Class B	**Nil**: Class A
Special code[3)]	**XXX**:Customer special requirement	**Nil**:Standrad	

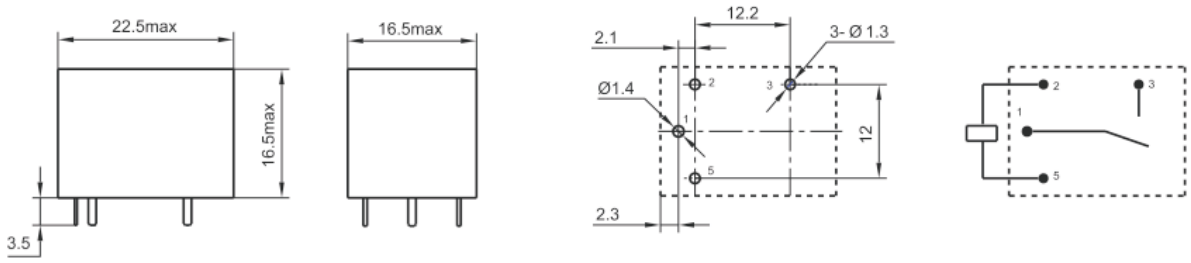
Notes: 1) We recommend flux proofed types for a clean environment(free from contaminations like H_2S,SO_2,NO_2,dust,etc.). We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H_2S,SO_2,NO_2,dust,etc.).
2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
3) The customer special requirement express as special code after evaluating by JINTIAN.

OUTLINE DIMENSIONS,WIRING DIAGRAM AND PC BOARD LAYOUT

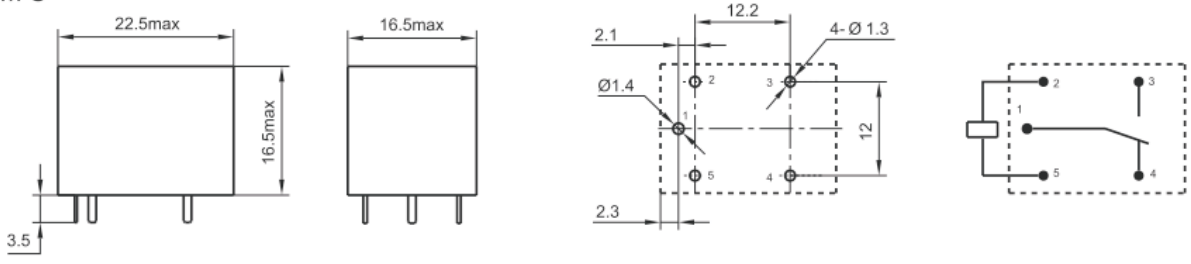
Unit: mm

Outline Dimensions | PCB Layout (Bottom view) | Wiring Diagram (Bottom view)

1 Form A



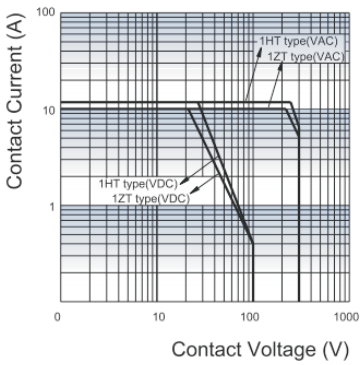
1 Form C



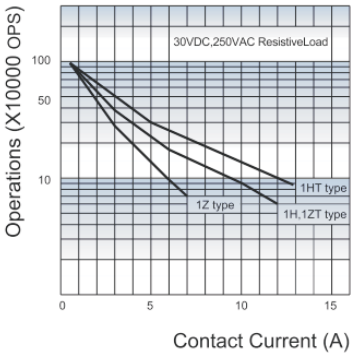
Remark:1)In case of no tolerance shown in outline dimension:outline dimension ≤1mm,tolerance should be ±0.2mm;outline dimension>1mm and≤5mm,tolerance should be±0.3mm;outline dimension>5mm,tolerance should be±0.4mm.
2) The tolerance without indicating for PCB layout is always±0.1mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



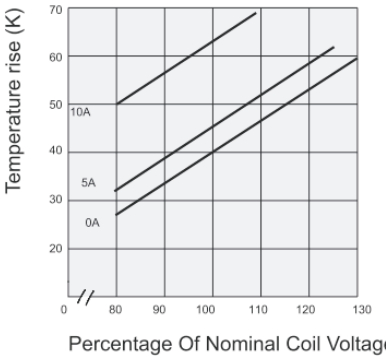
ENDURANCE CURVE



Test conditions:

NO, Resistive load, Flux proofed,
Room temp., 1s on 9s off.

COIL TEMPERATURE RISE



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.

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