JT102F

SUBMINIATURE HIGH POWER RELAY





Features

- 4.5kV dielectric strength
- (between coil and contacts)
- Heavy load up to 5000VA
- Ideal for motor switchingPCB&QC layouts available
- UL insulation system:Class F
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (30.5 x 16.0 x 23.5)mm

CONTACT DATA

Contact arrangement	1A
Contact resistance	100mΩ max.(at 1A6VDC)
Contact material	AgSnO₂
Contact rating	Resistive:20A 250VAC
(Res.load)	Motor:2HP 240VAC
Max.switching voltage	250VAC
Max.switching current	Resistive:25A
Max.switching power	6250VA
Mechanical endurance	2 x 10 ⁶ OPS
Electrical endurance	1 x 10⁵OPS(20A 250VAC, Resistive load,at 85℃ 3s on 3s off)

CHARACTERISTICS

Insulation resistance		ice	1000M Ω (at 500VDC)	
strongth	Between coil&contacts		4500VAC 1min	
	Between open contacts		1000VAC 1min	
Operate time(at nomi.volt.)		omi.volt.)	20ms max.	
Release time(at nomi.volt.)		omi.volt.)	10ms max.	
Temperature rise(at nomi.volt.)		at nomi.volt.)	60K max.	
Shock resistance	Functional	196m/s²		
	Destructive	980m/s²		
Vibration resistance		ce	10Hz to 55Hz 1.5mm DA	
Humidity		5% to 85% RH		
Ambient tenperature		ire	-25℃to 85℃	
Termination			JT102F:PCB&QC JT102F-P:PCB	
Unit weight			Approx.23g	
Construction			Dust protected	

Notes: The data shown above are intial values.

COIL

Coil power	Approx.900mW

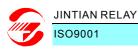
COIL DATA at 23°C				
Nominal Voltage VDC	Pick-up Voltage VDC max.	Dorp-out Voltage VDC min.	Max. Voltage VDC*	Coil Resistance Ω
5	3.5	0.5	6.0	27.8 x (1±10%)
12	8.4	1.2	14.4	160 x (1±10%)
24	16.8	2.4	28.8	640 x (1±10%)
48	33.6	4.8	57.6	2560 x (1±10%)

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	25A 250VAC
	20A 250VAC
	1HP 120VAC
	2HP 240VAC
TUV	25A 250VAC 55℃
	20A 250VAC 85℃

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



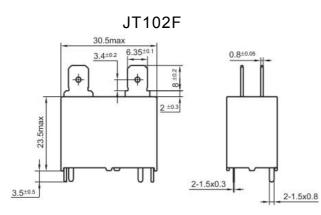
ORDERING INFORMATION					
JT	102F /	Т	G	12VDC	(XXX)
Type JT102F-P:PCB Layouts JT102F:PCB&QC Layou	uts				. ,
Contact material	T:AgSnO2				
Load	G:25A Nil:	:20A			
Coil voltage	5,12,24,48VDC				
Special code ²⁾ XXX :Customer special requirement Nil: Standrad					

Notes: 1) JT102F is dust protected version which cannot be washed.

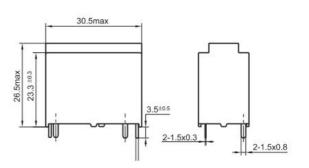
2) The customer special requirement express as special code after evaluating by JINTIAN.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

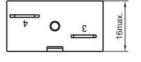




OUTLINE DIMENSIONS

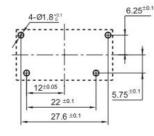


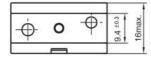
JT102F-P



(Top view)

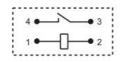






(Top view)

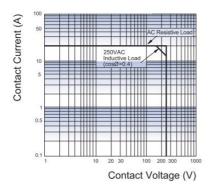
Wiring Diagram



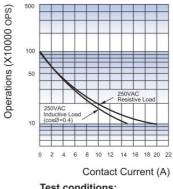
Remark:1)In case of no tolerance shown in outline dimension:outline dimension ≤1mm,tolerance should be ±0.2mm;outline dimension>1mm and≤5mm,tolerance should be±0.3mm;outline dimension>5mm,tolerance should be±0.4mm.
2) The tolerance without indicating for PCB layout is always±0.1mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



Test conditions: Room temp. 1s on 9s off

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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