HF7FF

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E134517



File No.:CQC09002028260



Features

- 10A switching capability
- 1 Form A and 1 Form C configurations
- Plastic sealed and flux proofed 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	5A 250VAC/30VDC		
(Res. load)	10A 250VAC/28VDC		
Max. switching voltage	250VAC / 30VDC		
Max. switching current	10A		
Max. switching power	2400VA / 280W		
Mechanical endurance	1 x 10 ⁷ ops		
	1HT, 1ZT type: 1 x 1040PS (10A 250VAC,		
Electrical endurance	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)		

CHAR	ACTER	ISTICS	
Insulation resistance			100MΩ (at 500VDC)
Dielectric	Between coil & contacts		1500VAC 1min
strength	Between open contacts		750VAC 1min
Operate time (at nomi. volt.)			10ms max.
Release time (at nomi. volt.)			5ms max.
Observations of all and a	rictanco	Functional	98m/s ²
Shock resistance		Destructive	980m/s²
Vibration resistance			10Hz to 55Hz 1.5mm DA
Humidity			5% to 85% RH
Ambient temperature			-40°C to 70°C
Termination			PCB
Unit weight			Approx. 9.5g
Construction			Plastic sealed, Flux proofed

Notes: 1) The data shown above are initial values.

- 2) Please find coil temperature curve in the characteristic curves below.

 3) UL insulation system: Class F, Class B, Class A.

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

COIL DATA at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-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		0.9	10.8	225 x (1±10%)	
12		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: *Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

SAFETY APPROVAL RATINGS

UL/CUL (AgCe)		NO: 10A 277VAC
	1 Form C	NO/NC: 5A 277VAC
		NO: 5A 30VDC
		NO: 4FLA 4LRA 120VAC
		NC: 2FLA 4LRA 120VAC
	1 Form A	10A 277VAC
		6A 30VDC
UL/CUL	4.50	12A 277VAC
	1 Form C	12A 28VDC
(AgSnO ₂)	1 Form A	12A 277VAC
	I FOIIII A	12A 28VDC

Notes: 1) All values unspecified are at room temperature.

2) Only typical loads are listed above. Other load specifications can be available upon request.



HONGFA RELAY

ISO9001, ISO/TS16949 , ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2014 Rev. 1.01

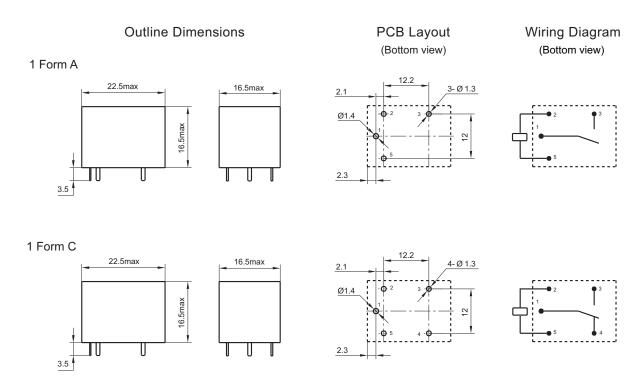


Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications.

If the ambience allows, flux proofed type is preferentially recommended.

- 2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
- 3) If the application belongs to inductive load, AgSnO2ln2O3 contact material is recommended. Please add a special suffix (325) to stand for this special contact material in the ordering information.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm

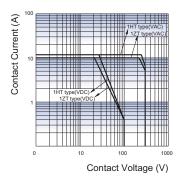


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

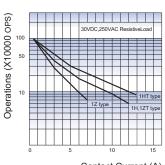
2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER

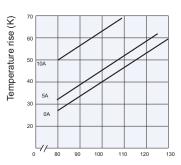


ENDURANCE CURVE



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

COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

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 Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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