HF7520

SUBMINIATURE POWER RELAY



File No.: E133481



File No.: R50050775



Features

Low height, flat construction

High rating: 16A

High sensitive: 200mW

PCB & QC layouts available

 Wash tight and flux proofed types (with vent-hole cover) available

Environmental friendly product (RoHS compliant)

Outline Dimensions: (22.0 x 16.0 x 10.9) mm

CONTACT DATA					
Arrangement	1C				
Contact resistance	100mΩ (at 1A 6VDC)				
Contact material	See ordering info				
Contact rating (Res. load)	NO: 10A 125/250VAC NC: 6A 125/250VAC	Standard type: TV-5 10A 30VDC 10A 125/250VAC High capacity type(P): TV-5			
		10A 30VDC 16A 125/250VAC 8A 250VAC(cosø=0.4)			
Max.switching voltage	250VAC	250VAC/30VDC			
Max.switching current	NO:10A NC: 6A	16A			
Max.switching power	NO: 2500VA NC: 1500VA	4000VA/300W			
Mechanical endurance		1x10 ⁷ ops			
Electrical endurance		1x10⁵ops			

COIL	
Coil power	1A: 200mW; 1C: 400mW

SPECI	FICATION				
Insulation resistance		1000MΩ (at 500VDC)			
Dielectric strength	Between coil & contacts	2500VAC 1 min			
	Between open contacts	1000VAC 1 min			
Operate time (at nomi.volt)		10ms max.			
Release t	ime (at nomi.volt)	5ms max			
Shock	Functional	100m/s² (10g			
resistance	Destructive	1000m/s² (100g			
Vibration resistance		10Hz to 55Hz 1.5mm DA			
Humidity		35% to 85% RH			
Ambient temperature		-40°C to 85°C			
Termination		1C: PCB			
		1A: PCB & Q			
Unit weight		Approx.8o			
Construction		Wash tight, Flux proofed			

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

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

SAFETY APPROVAL RATINGS

UL&CUR		TV-5
	1 Form A	16A 125VAC
	1 FOITH A	10A 250VAC
OLACON		
	1 Form C	NO: 10A 250VAC
		NC: 6A 250VAC
ΤÜV		16A 250VAC
	1 Form A	10A 30VDC
		8A 250VAC (COSØ=0.4)

Notes: Only some typical ratings are listed above. If more details are required, please contact us.

COIL DATA at 23°C

1 Form C Type

1 Form A Type

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	4.0	0.5	6.5	62.5 x (1±10%)
6	4.8	0.6	7.8	90 x (1±10%)
9	7.2	0.9	11.7	202.5 x (1±10%)
12	9.6	1.2	15.6	360 x (1±10%)
18	14.4	1.8	23.4	810 x (1±10%)
24	19.2	2.4	31.2	1440 x (1±10%)
48	38.4	4.8	62.4	5760 x (1±10%)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	4.0	0.5	7.5	125 x (1±10%)
6	4.8	0.6	9	180 x (1±10%)
9	7.2	0.9	13.5	405 x (1±10%)
12	9.6	1.2	18	720 x (1±10%)
18	14.4	1.8	27	1620 x (1±10%)
24	19.2	2.4	36	2880 x (1±10%)
48	38.4	4.8	72	11520 x (1±10%)

ORDERING INFORMATION

H	F7520 /	012	-H	S	Т	Р	Q	(XXX)
Туре								
Coil voltage 5, 6,	9,12, 18, 24, 48V	DC						
Contact arrangement	H: 1 Form A	Z: 1 Fo	rm C					
Construction 1)	S: Wash tight	Nil: Flu	ux proofed					
Contact material T: AgSnO ₂ Nil: AgCdO (only for 1A) AgNi (only for 1C)								
Contact capacity P: High Capacity type (only for 1A) Nil: Standard type								
Terminal type Q: QC (only for 1A & high capacity type) Nil: PCB								
Customer special code ²⁾ e.g. (551) stands for RoHS compliant (Cadmium containing contacts) (Only for special requirements) (555) stands for RoHS compliant (Cadmium-free contacts)								

Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, wash tight type is recommended; please test the relay in real applications. If the ambience allows, flux proofed is preferentially recommended.

²⁾ HF7520 is an environmental friendly product. Please mark a special code (555) or (551) when ordering. (551) stands RoHS compliant with Cadmium contact; (555) stands for RoHS compliant with Cadmium-free contact.

³⁾ If choose wash tight type for body cleanout concern, please cut the vent hole after the process.

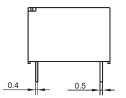
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

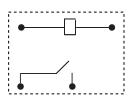
1 Form A (PCB)

Outline Dimensions

0.4 0.4 0.5

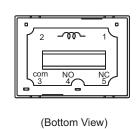


Wiring Diagram (Bottom View)



PCB Layout

The vent-hole cover O G G H



(Bottom view)

17.78

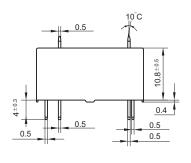
2 x Ø0.9

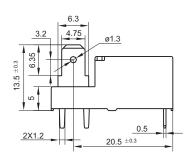
10.16

2 x Ø1.3

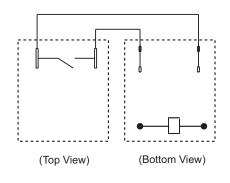
1 Form A (QC)

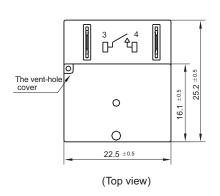
Outline Dimensions

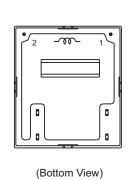


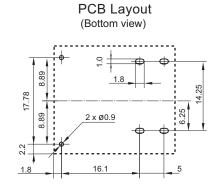


Wiring Diagram



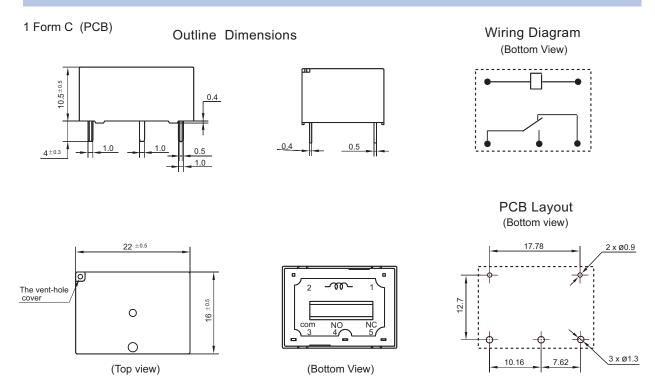






OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

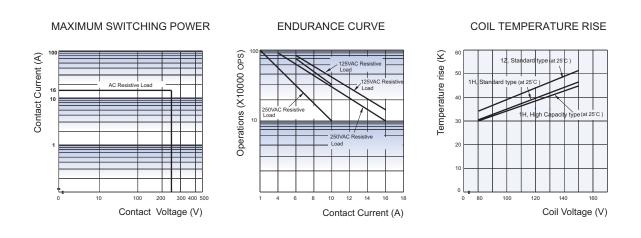
Unit: mm



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



Disclaimer

This datasheet is for the customers' reference. All the specifications are 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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