COIL DATA

at 23˚C

1 Form C type

Nominal Voltage VDC	Pick-up Voltage VDC max.[1)]	Drop-out Voltage VDC min.[1)]	Max. Voltage VDC*[2)]	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%)

1 Form A type

Nominal Voltage VDC	Pick-up Voltage VDC max.[1)]	Drop-out Voltage VDC min.[1)]	Max. Voltage VDC*[2)]	Coil Resistance Ω
5	4.0	0.5	6.5	125 x (1±10%)
6	4.8	0.6	7.8	180 x (1±10%)
9	7.2	0.9	11.7	405 x (1±10%)
12	9.6	1.2	15.6	720 x (1±10%)
18	14.4	1.8	23.4	1620 x (1±10%)
24	19.2	2.4	31.2	2880 x (1±10%)
48	38.4	4.8	62.4	11520 x (1±10%)

Notes:1) The data shown above are initial values.
2)*Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

ORDERING INFORMATION

HF7520 / 012 -H S T P Q (XXX)

Type	
Coil voltage	5, 6, 9,12, 18, 24, 48VDC
Contact arrangement	**H:** 1 Form A **Z:** 1 Form C
Construction [1)]	**S:** Plastic sealed **Nil:** Flux proofed
Contact material	**T:** $AgSnO_2$ **Nil:** AgCdO (Only for 1 Form A) AgNi (Only for 1 Form C)
Contact capacity	**P:** High Capacity type (Only for 1 Form A) **Nil:** Standard type
Terminal type	**Q:** QC (Only for 1 Form A and high capacity type) **Nil:** PCB
Special code[4)]	**XXX:** Customer special requirement **Nil:** Standard

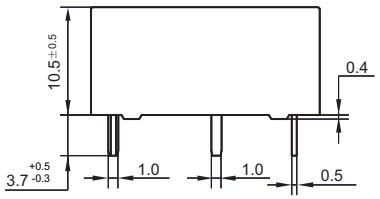
Notes: 1) We recommend flux proofed types for a clean environment (free from contaminations like H_2S, SO_2, NO_2, dust, etc.).
We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H_2S, SO_2, NO_2, dust, etc.).
2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
3) When the ambient temperature reaches 105˚C degree or more, please select flux proofed and high capacity type. Besides, please indicate the exact ambient temperature when ordering.
4) The customer special requirement express as special code after evaluating by Hongfa.

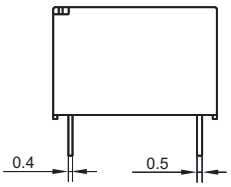
OUTLINE DIMENSIONS , WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

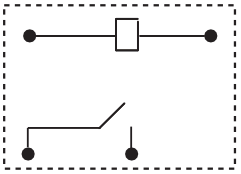
1 Form A (PCB)

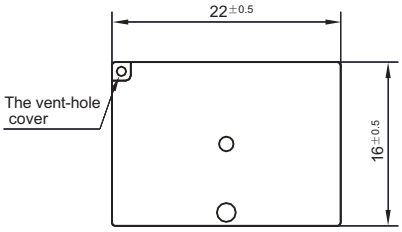
Outline Dimensions



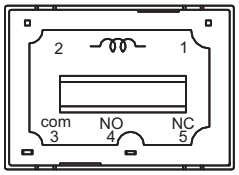


Wiring Diagram
(Bottom View)



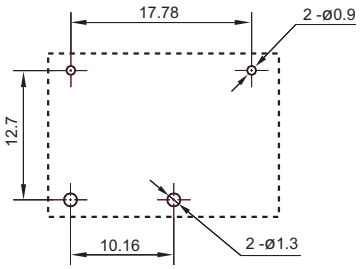


(Top view)



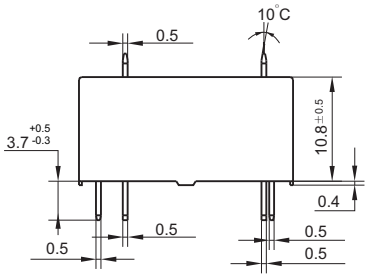
(Bottom View)

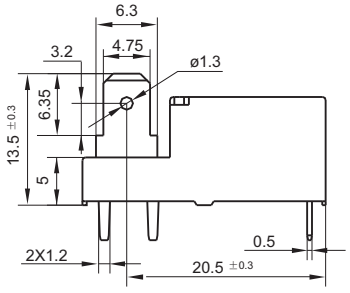
PCB Layout
(Bottom view)



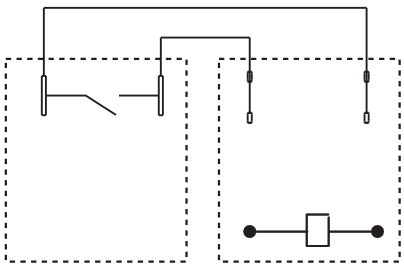
1 Form A (QC)

Outline Dimensions

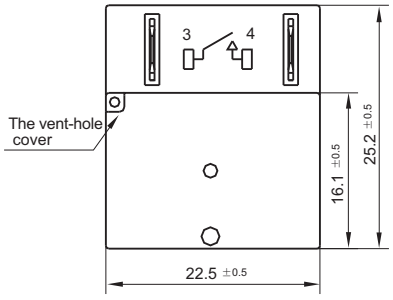




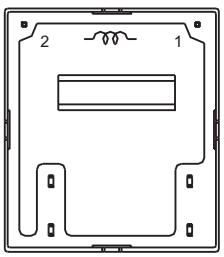
Wiring Diagram



(Top View) (Bottom View)

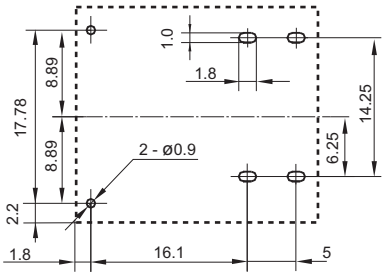


(Top view)



(Bottom View)

PCB Layout
(Bottom view)

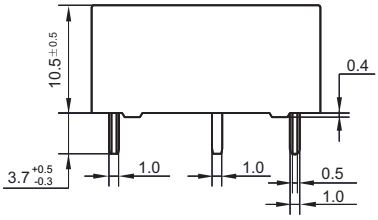


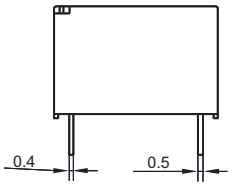
OUTLINE DIMENSIONS , WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

1 Form C (PCB)

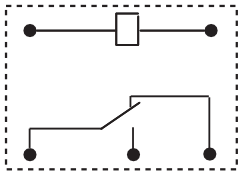
Outline Dimensions





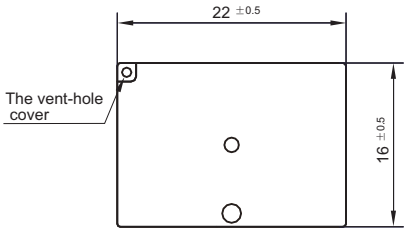
Wiring Diagram

(Bottom View)

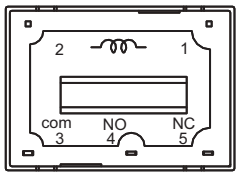


PCB Layout

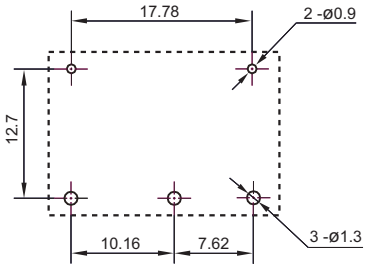
(Bottom view)



(Top view)



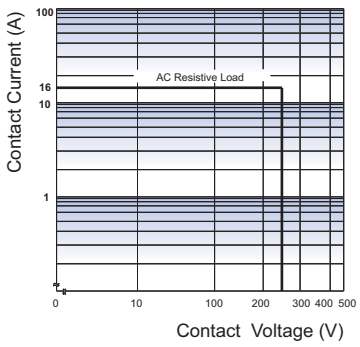
(Bottom View)



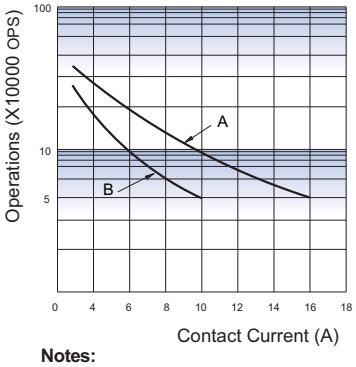
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.
2) The tolerance without indicating for PCB layout is always ±0.1mm.

CHARACTERISTIC CURVES

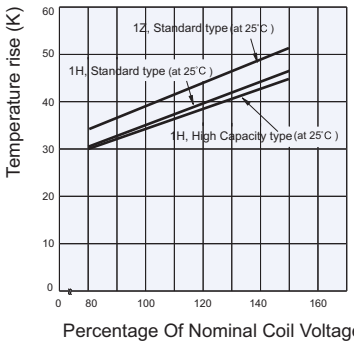
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Notes:

(1) Curve A: HP type
Curve B: H type

(2) Test conditions:
Curve A: 16A 125VAC, Resistive load,
Room temp., 1s on 9s off
Curve B: 10A 250VAC, Resistive load,
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 Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.