

HF5502

Subminiature Timer Incorporating Exclusive IC Ideal



Features

- Semi-multi power supply voltage
- Exclusive C-MOS IC permits miniaturization and assures high performance
- High repeat accuracy: $\pm 5\%$ including the initial value
- Short resetting time: 0.1 second max. including the time when the timer resets in operation
- Large transparent time setting knob facilitates time setting
- Equipped with an LED power-ON indicator
- Lead-free product available

CHARACTERISTICS

Accuracy of operating time (Max.)	$\pm 5\%$
Setting error (Max.) ¹⁾	$\pm 10\% \pm 50\text{ms}$
Reset time (Max.)	0.1s (including halfway reset)
Reset voltage (Max.)	10% of rated supply voltage
Influence of voltage (Max.) ¹⁾	$\pm 2\%$
Influence of temperature (Max.) ¹⁾	$\pm 2\%$
Insulation resistance (Min.)	100M Ω (at 500 VDC)
Dielectric strength	Between coil and contacts: 1500VAC 1min Between circuits: 1500VAC 1min Between contact sets: 1000VAC 1min
Vibration resistance	Destruction: 10 to 55 Hz, 0.75mm single amplitude Malfunction: 10 to 55 Hz, 0.50mm single amplitude
Shock resistance	Destruction: 1,000 m/s ² (100g) Malfunction: 100 m/s ² (10g)
Ambient temperature	Operating: -10°C to 50°C (with no icing) Storage: -25°C to 65°C (with no icing)
Ambient humidity	35% to 85% RH
Mechanical life (Min.)	1×10^7 OPS (under no load at 1,800 OPS/h)
Electrical life (Min.)	HF5502-2: 1×10^5 OPS (7A 250 VAC/30VDC, resistive load at 1800 OPS/h) HF5502-4: 1×10^5 OPS (5A 250 VAC/30VDC, resistive load at 1800 OPS/h)
Enclosure rating	IP40
Control outputs	HF5502-2: 7A 250 VAC/30VDC, resistive load (cos=1) HF5502-4: 5A 250 VAC/30VDC, resistive load (cos=1)
Weight	Approx. 50g

1) Add ± 10 ms to the above value for the 1s range model.

TIMING RANGE

Code	Rated time	Time setting range
A	1 s	0.1 to 1 s
B	5 s	0.2 to 5 s
C	10 s	0.5 to 10 s
D	30 s	1.0 to 30 s
E	60 s	2.0 to 60 s
F	3 min	0.1 to 3 min

Code	Rated time	Time setting range
G	5 min	0.2 to 5 min
H	10 min	0.5 to 10 min
I	30 min	1 to 30 min
J	60 min	2 to 60 min
K	3 h	0.1 to 3 h
L	6 h	0.2 to 6 h



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

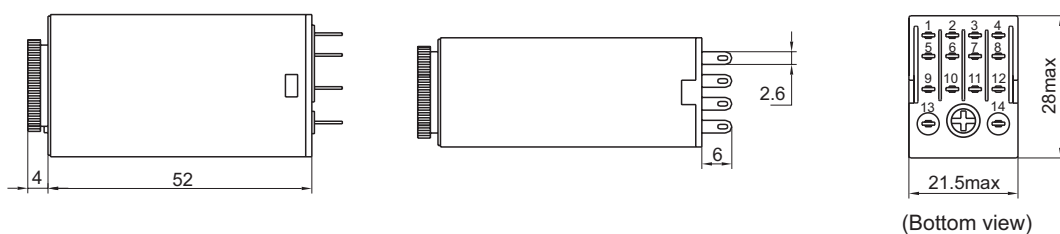
2005 Rev. 1.00

ORDERING INFORMATION

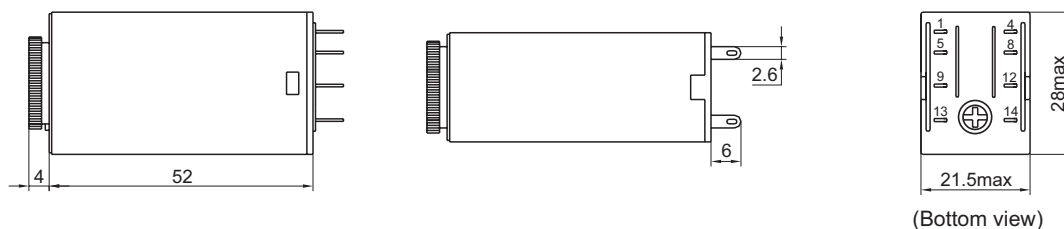
	HF5502-2 /	A	24VDC	XXX
Type	HF5502-2: 7A 250VAC/30VDC, 2 poles HF5502-4: 5A 250VAC/30VDC, 4 poles			
Timing range	A to L (Show in the timing range table)			
Control Voltage	DC: 12VDC, 24VDC, 48VDC AC: 110VAC, 220VAC, 240VAC			
Special request code	(Only for special requirements, e.g. 551 stand for lead-free)			

OUTLINE DIMENSIONS

HF5502-4

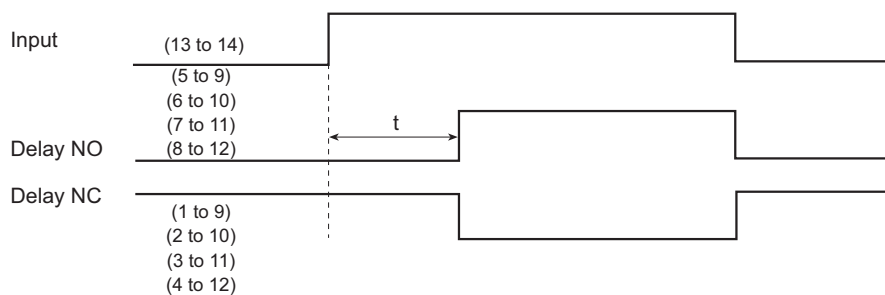


HF5502-2



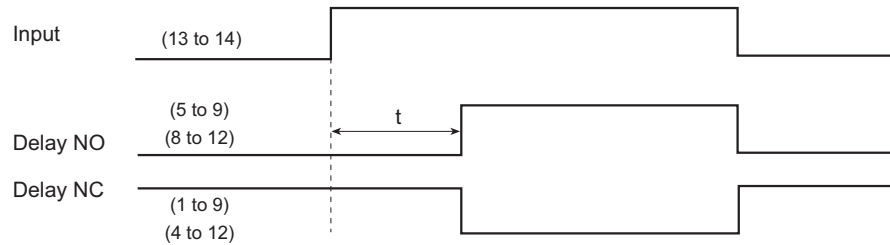
DELAY OSCILLOGRAM

HF5502-4



DELAY OSCILLOGRAM

HF5502-2



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.