

# HK4100F/4101F

## SUBMINIATURE SIGNAL RELAY



### Features

- 3A switching capability
- 1 Form C ,B&A configuration
- Standard PCB layout
- Plastic sealed and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (15.5 x 10.5 x 11.8) mm

### CONTACT DATA

Contact Form	1C 1A 1B
Contact Material	Silver Alloy
Contact Ratings	3A 250VAC/3A 30VDC
Max Switching Voltage	300VAC/60VDC
Max Switching Current	3A
Max Switching Power	750VA /90W
Contact Resistance	100MΩ(at 1A 6VDC)
Electrical Life	1X10 <sup>5</sup> Ops(30Ops/min)
Mechanical Life	1X10 <sup>7</sup> Ops(300Ops/min)

### GENERAL DATA

Insulation Resistance	100MΩ 500VDC	
Dielectric Strength	Between coil & contacts	1000VAC 1min
	Between open contacts	500VAC 1min
Operate Time	Max. 10ms	
Release Time	Max. 5ms	
Temperature Range	- 25°C to +70°C	
Shock Resistance	Functional	98m/s <sup>2</sup> (10g)
	Destructive	980m/s <sup>2</sup> (100g)
Vibration Resistance	10 to 55Hz 1.5mm	
Humidity	35% to 85% RH	
Weight	Approx. 3.5g	
Safety Standard	CUL TüV CQC	

### COIL DATA

Nominal Voltage (VDC)	Coil Resistance at 20°C ± 10%(Ω)			Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Max Applicate Voltage (VDC)
	0.15W	0.20W	0.36W			
3	60	45	25	2.25	0.30	3.90
5	167	125	70	3.75	0.50	6.50
6	240	180	100	4.50	0.60	7.80
9	540	405	225	6.75	0.90	11.70
12	960	720	400	9.00	1.20	15.60
24	3840	2880	1600	18.00	2.40	31.20

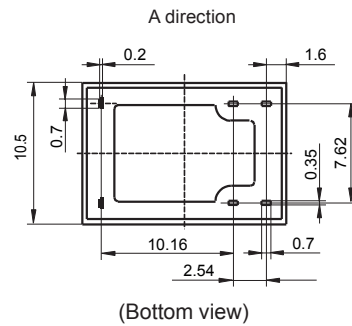
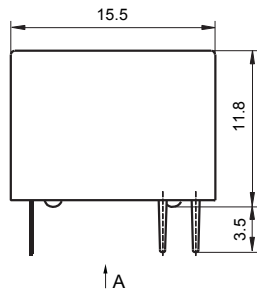
## ORDERING INFORMATION

HK4100F	- DC	6V	- S	D	1A	X	X	Special request code	G:RoHS
HK4101F								Mounting termination	NIL:PCB
								Contact Form	1C 1A NIL:1C
								Coil Power	NIL:0.36W D:0.15W H:0.2W
								Type of Sealing	NIL: Flow Solder Type S: Plastic Sealed Type
								Coil Voltage	3V,5V,6V,9V,12V,24V
								Coil Type	DC
								Type	HK4100F/HK4101F

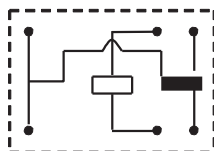
## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

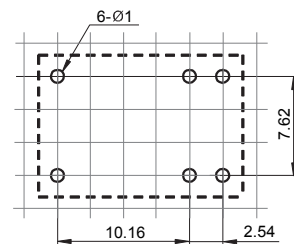
### Outline Dimensions



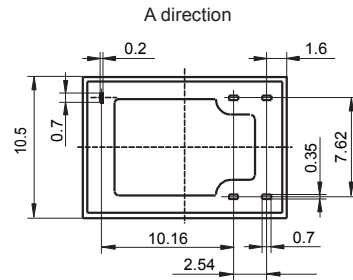
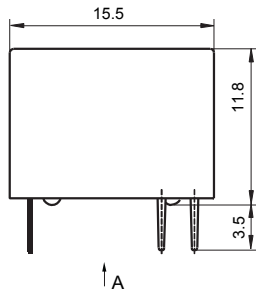
Wiring Diagram  
(Bottom view)



PCB Layout  
(Bottom view)

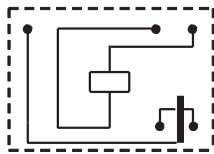


Outline Dimensions

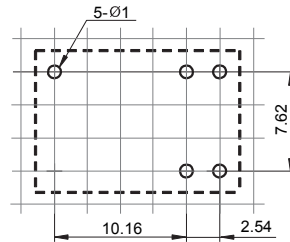


(Bottom view)

Wiring Diagram  
(Bottom view)



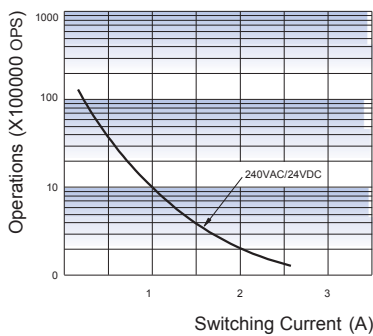
PCB Layout  
(Bottom view)



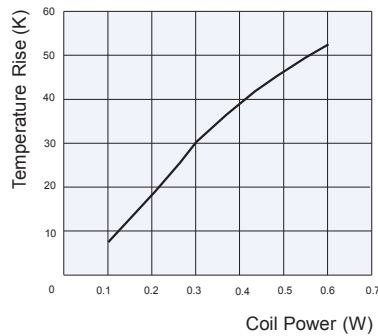
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1$ mm, tolerance should be  $\pm 0.2$ mm; outline dimension  $> 1$ mm and  $\leq 5$ mm, tolerance should be  $\pm 0.3$ mm; outline dimension  $> 5$ mm, tolerance should be  $\pm 0.4$ mm.  
 2) The tolerance without indicating for PCB layout is always  $\pm 0.1$ mm.  
 3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

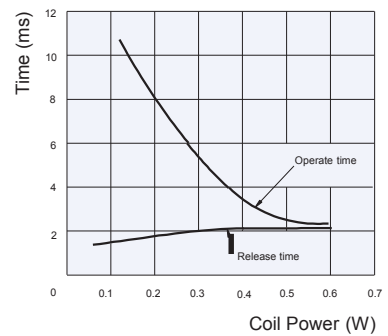
ENDURANCE CURVE



COIL TEMPERATURE RISE



OPERATE TIME



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 tight position to choose the suitable product for their own application. If there is any query, please contact Ever-way for the technical service. However, it is the user's responsibility to determine which product should be used only.