HKV6(T78) /HKV6M SUBMINIATURE AUTOMOTIVE RELAY



Features

- High current contact capacity
- Improved heat resistance
- High resistance to vibration and shock
- Reflow soldering version available
- RoHS compliant
- Outline Dimensions: (15.7 x 12.2 x 13.7) mm

■ CONTACT DATA				
Contact Form	1A 1C	2A		
Contact Material	Silver Alloy			
	20A 14VDC /5A 250VAC	2X10A 14VAC		
Contact Ratings	/7A 125VAC			
Max Switching Voltage		250VAC 16VDC		
Max Switching Current	25A	2X10A		
Max Switching Power	280W 1250VA	2X84W		
Contact Resistance		100MΩ(at 1A 6VDC)		
Electrical Life	1X10⁵Ops(30Ops/min)			
Mechanical Life	1X10 ⁷ Ops(300Ops/min)			

■ GENERAL DATA				
Insulation Resistance		100MΩ 500VD		
Dielectric Strength	Between coil & contacts	1000VAC 1min		
	Between open contacts	500VAC 1min		
Operate Time		Max. 10ms		
Release Time		Max. 5ms		
Temperature Range		- 40℃ to +85℃		
Shock Resistance	Functional	98m/s2 (10g)		
	Destructive	980m/s2 (100g)		
Vibration Resistance		10 to 55Hz 1.5mm		
Humidity		35% to 85% RH		
Weight		Approx. 6g		
Safety Standard		CUL		

■ COIL DATA							
Nominal Voltage (VDC)	Coil Resistance at 20 $^\circ\!\mathrm{C}$ ± 10%(Ω)		Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Max Applicate Voltage (VDC)		
	0.8W	0.6W			. ,		
6	45	60	3.90	0.60	9.00		
9	100	135	5.85	0.90	13.50		
12	180	240	7.80	1.20	18.00		
24	720	960	15.60	2.40	36.00		



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm



PCB Layout (Bottom view)



Outline Dimensions for HKV6(T78)



Wiring Diagram (Bottom view)



Outline Dimensions for HKV6M



PCB Layout(Bottom view)



Remark: * The additional tin top is max. 1mm.



Wiring Diagram(Bottom view)



CHARACTERISTIC CURVES

1. Coil operating voltage range (NO contacts, at 13.5VDC)



2. Load curve (NO contacts, at 23°C)





3. Reflow welding, temperature on PCB board. (Recommended welding temperature)



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 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.

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Coil temperature rise