

KT-574



(20.5 X 10.5 X 15.8) mm

GENERAL PURPOSE RELAY

Features

- Contact Arrangement : 1A, 1C
- 10A Switching Capability
- Provide High Sensitive Type
Coil Power is : 200mW
- UL Insulation System : Class F
- Environment-Friendly Product
(RoHS Compliant)
- Products with operating Temperature
105°C are Available

Application Area

- Home Appliance
- Electric Power Meter
- Automation

Contact Data

Arrangement	1A,1B,1C
Contact Material	Silver Alloy
Contact Resistance	100m ΩMax at 6VDC 1A
Maximum Switching Power	2500VA / 300W
Resistive Load (Cos Φ=1)	5A 250VAC / 30VDC 10A 250VAC / 30VDC
Maximum Switching Voltage	240V AC / 60V DC
Maximum Switching Current	10A
Nominal Operating Power	2500VA/300V
Minimum Switching Capacity	5V DC 100mA

Environmental Data

Storage Temperature	-40°C to 85°C
Operating Temperature	-40°C to 85°C
Ambient Humidity	5% to 90%

Ordering Information

	Kt574	DC12V	1	C	F	T	R
Type							
Coil Specification	DC3/5/6/9/12/15/18/24/48V						
Pole 1							
Contact Arrangement	1A, 1C						
Construction:	F=Flux proofed, S=Plastic Sealed						
Contact Material:	T=Silver Alloy						
Coil Power:	R = 450mW, H = 200mW						

Electrical Characteristics

Insulation Resistance (initial)	1000 MΩ (500VDC)
Dielectric Strength	Between open contacts 1000VAC, 1 min
	Between contacts & coil 4000VAC, 1 min
Operating time (at nominal voltage)	< 10ms
Release time (at nominal voltage)	< 5ms

Life Expectancy

Mechanical (at 300 ops/min)	5amp	5 x 10 ⁶ ops
	5amp	
	5amp	
Electrical	5amp 250VAC/30VDC	1 x 10 ⁶ ops (ON/OFF = 1s/9s)
	10amp 250VAC/30VDC	5 x 10 ⁴ ops (ON/OFF = 1s/9s)

Mechanical Characteristics

Shock Resistance	Functional	98m/s ² (10g)
	Destructive	980m/s ² (100g)
Vibration Resistance	Functional	10Hz~55Hz 1.5mm DA
	Destructive	
Termination		---- PCB
Terminal Strength		---- 10N
Weight (approx)		6g
Solderability		250±3°C, 5±0.5 seconds

Coil Data (23°C)

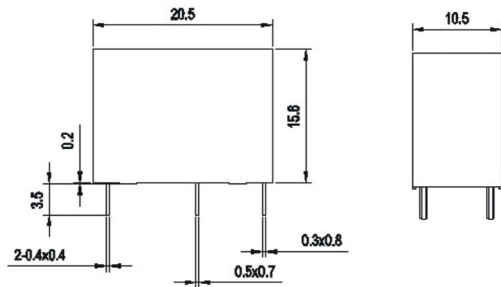
Nominal Voltage	Coil Power 450mW					Coil Power 200mW				
	Rated Current (±10%)	Must Operate Voltage	Must Release Voltage	Max Voltage	Coil Ohms (±10%)	Rated Current (±10%)	Must Operate Voltage	Must Release Voltage	Max Voltage	Coil Ohms (±10%)
03VDC	150mA	≤ 2.25	≥ 0.15	3.9V	20	66.7mA	≤ 2.25	≥ 0.15	3.9V	45
05VDC	90mA	≤ 3.75	≥ 0.25	6.5V	55.5	40mA	≤ 3.75	≥ 0.25	6.5V	125
06VDC	75mA	≤ 4.50	≥ 0.30	7.8V	80	33.3mA	≤ 4.50	≥ 0.30	7.8V	180
09VDC	50mA	≤ 6.75	≥ 0.45	11.7V	180	22.2mA	≤ 6.75	≥ 0.45	11.7V	405
12VDC	37.5mA	≤ 9.00	≥ 0.60	15.6V	320	16.7mA	≤ 9.00	≥ 0.60	15.6V	720
15VDC	30mA	≤ 11.25	≥ 0.75	19.5V	500	13.3mA	≤ 11.25	≥ 0.75	19.5V	1128
18VDC	25mA	≤ 13.50	≥ 0.90	23.4V	720	11.1mA	≤ 13.50	≥ 0.90	23.4V	1620
24VDC	18.8mA	≤ 18.00	≥ 1.20	31.2V	1280	8.3mA	≤ 18.00	≥ 1.20	31.2V	2280
48VDC	10.4mA	≤ 36.00	≥ 2.40	62.4V	4608					

Notes:

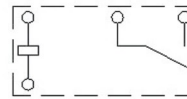
COIL POWER FOR
48V DC : 500mW

Outline Dimensions, Wiring Diagram and PC Board Layout (Unit: mm)

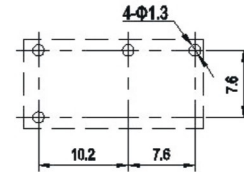
1A Outline Dimensions



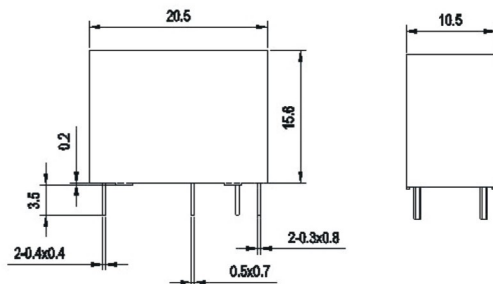
Wiring Diagram
(Bottom view)



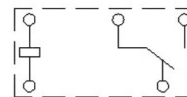
PCB Layout
(Bottom view)



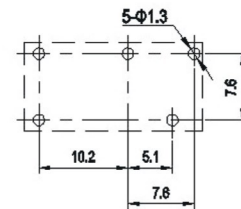
1C Outline Dimensions



Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)

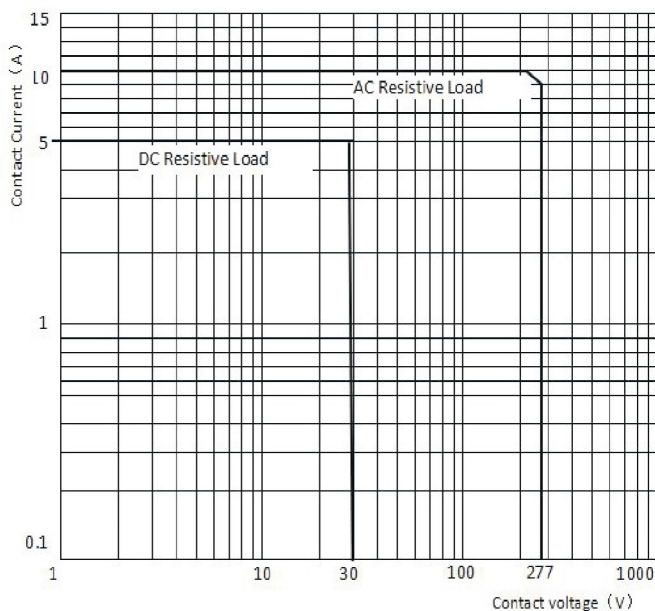


Remark: (1) In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and < 5 mm, tolerance should be ± 0.3 mm; outline dimension ≥ 5 mm, tolerance should be ± 0.5 mm.

(2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

Performance Curves

MAXIMUM SWITCHING POWER



ENDURANCE CURVE

