

TNN SERIES

ORDER CODE

TNN-2A-12-05-L

□: 0.54W
L: 0.25W

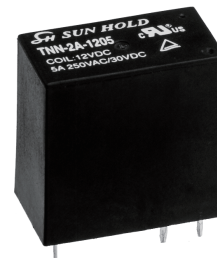
05: 5A

COIL VOLTAGE

2A: 2a

TYPE

03: DC 3V
05: DC 5V
06: DC 6V
09: DC 9V
12: DC 12V
24: DC 24V
48: DC 48V



Main Features:

- UL & TUV safety approval.
- Small size Relay (24.4 × 12.9 × 24.5)
- Contact: 2 form A.
- Nominal power 540mw, operating power 250mw.

COIL RATING (at 20°C)

NOMINAL VOLTAGE (VDC)	COIL RESISTANCE (Ω)(±10%)	POWER CONSUMPT -ION(W)	NOMINAL CURRENT (mA)(±10%)	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)
3V	17Ω	0.54W	176.4mA	80% MAX.	5% MIN.	120%
5V	50Ω		100.0mA			
6V	68Ω		88.2mA			
9V	155Ω		58.1mA			
12V	270Ω		44.4mA			
24V	1100Ω		21.8mA			
48V	4400Ω		10.9mA			

	NOMINAL VOLTAGE (VDC)	COIL RESISTANCE (Ω)(±10%)	POWER CONSUMPT -ION(W)	NOMINAL CURRENT (mA)(±10%)	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)
L	3V	36Ω	0.25W	83.3mA	80% MAX.	5% MIN.	120%
	5V	100Ω		50.0mA			
	6V	144Ω		41.7mA			
	9V	324Ω		27.8mA			
	12V	576Ω		20.8mA			
	24V	2304Ω		10.4mA			
	48V	9216Ω		5.2mA			

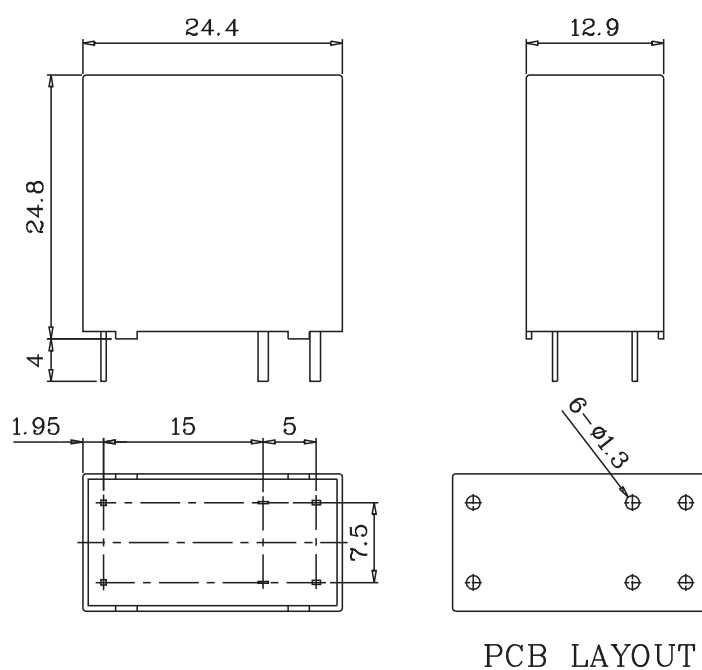
PERFORMANCE (at initial value)

Item	Type	5A
Contact Resistance		100mΩ Max.(initial value)
Operate Time		20msec Max.
Release Time		10msec Max.
Dielectric Strength between coil & contact between contact		AC3000V (1min) AC1000V (1min)
Insulation Resistance		100MΩ Min.(DC500V)
Operating Ambient Temperature		-30°C ~ +70°C
Humidity		35 to 85% RH
Vibration Resistance		15G (10~55Hz)(Dual amplitude:1.5mm)
Shock Resistance		15G
Life Expectancy Mechanically Electrically		5,000,000 ops. Min.(1800 ops./h) 100,000 ops. Min.(1200 ops./h)
Weight		13g(about)

CONTACT RATING

Item \ Type	5A
Rated Carrying Current	AC250V 5A DC30V 5A
Max. Allowable Current	5A
Max. Allowable Voltage	AC 250V DC 30V
Max. Current (continual)	5A
Max. Allowable Power	1250VA,150W
Contact Material	Ag alloy

DIMENSIONS(Unit: mm)



PCB LAYOUT

WIRING DIAGRAMS(Bottom View)

2a

