



# TA/TR Series

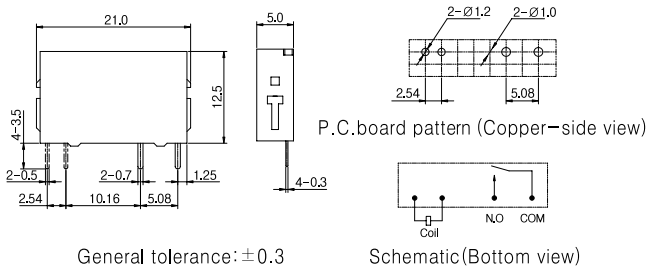
Miniature sized class F Relays



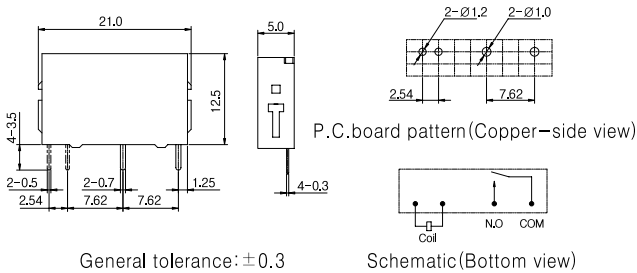
- Miniature size (width 5mm, height 12.5mm) high density and easy to install
- Extended switching capability (1mA 5VDC to 5A 250VAC, 30VDC)
- Twin Cross Bar Contact Mechanism for enhanced contact reliability
- High sensitive operation: 120mW ~ 180mW (5 to 24VDC)
- Gold Clad Silver Alloy Contact to secure micro current conductivity
- SIL terminal layout
- Wider terminal structure (TA : 5.08mm/TR : 7.62mm)
- Gold plated Socket terminal (24k gold plated)
- Class F 155°C

## Dimensions (unit: mm)

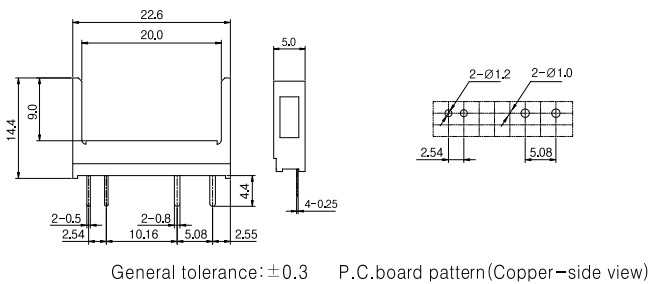
### TA Series



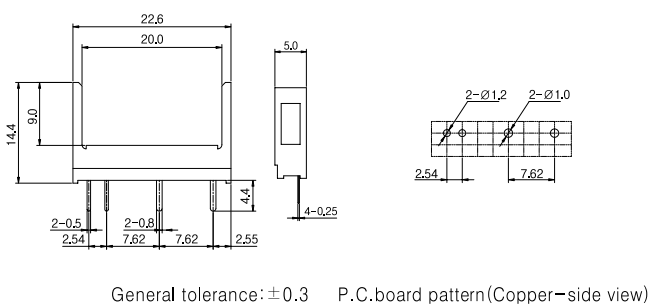
### TR Series



### TAS (Socket for TA)



### TRS (Socket for TR)



## Ordering Information

T A - 1a 5

①                      ②

① Distance btwn Terminals	<b>A</b>	5.08mm
	<b>R</b>	7.62mm
② Voltage	<b>5</b>	5V DC
	<b>12</b>	12V DC
	<b>24</b>	24V DC

## Specifications

Contact Specifications	<b>Contact point composition</b>		SPST (1NO)
	<b>Contact point material</b>		Gold-clad Silver alloy
	<b>Initial contact resistance</b>		30mΩ max
	<b>Rated current(resistance load)</b>		5A 30V DC 5A 250V AC
	<b>Maximum Switching Current rating</b>		5A
	<b>Maximum Contact capacity</b>	<b>DC</b>	150W
		<b>AC</b>	1,250VA
	<b>Maximum Rated Voltage</b>		110V DC 250V AC
<b>Minimum switching rating*</b>		1mA 5V DC	
Coil Spec.	<b>Coil Voltage</b>		5VDC ~ 24VDC
	<b>Power consumption</b>		120mW, 180mW
	<b>Minimum operating</b>		70% of rated voltage
	<b>Maximum cut-off voltage</b>		5% of rated voltage
	<b>Insulation</b>		Class F 155°C
<b>Time of operation</b>		maximum rated voltage at 6ms	
<b>Time of interruption</b>		maximum tated voltage at 3ms	
<b>Insulation resistance</b>		1,000MΩ min. (500VDC)	
<b>Dielectric Strength</b>	between contact points	1,000VACrms per minute	
	Between contact points and coil	2,000VACrms per minute	
<b>Surge voltage</b>	Between contact points and coil	4,000V	
<b>Life span</b>	Mechanical	Over 10,000,000 times	
	Electrical	Over 100,000 times under rated load	
<b>Vibration resistand</b>	Functional	Min. 147m/s <sup>2</sup> (15G), 10~55Hz (width of vibration:2.5mm)Min.	
	Destructive	Min. 205.8m/s <sup>2</sup> (21G), 10~55Hz (width of vibration: 3.5mm)	
<b>Counter Shock</b>	Functional and destructive	15G min. (147m/s <sup>2</sup> ) 100G min. (980m/s <sup>2</sup> )	
	<b>Ambient temperature</b>		-40°C ~ +70°C (non-freezing)
<b>Ambient humidity</b>		5% ~ 85% RH	
<b>Weight</b>		Approx. 3g	

\* The above mentioned minimum switching rating is only referential. The referenced value varies according to the make and break frequency, environmental condition and anticipated credibility level. Therefore, it is recommended that tests be done with actual load value before the production process.