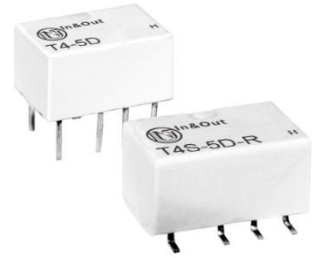


## ● Features

- Offers excellent board space savings
- Surge withstand voltage up to 2500VAC
- Available in DIP & SMT type
- Available in Single side stable & latching type
- High contact capacity 2A 30VDC
- Environmental friendly product (RoHS compliant)
- Dimensions: 10.0 x 6.5 x 5.4 mm (DIP type)  
10.0 x 6.5 x 5.65 mm (SMT type)



## ● Application

- Telecommunication Equipment / Security Alarm Systems / Measuring instruments / Medical Monitoring Equipment / Audio Visual Equipment / Flight Simulator / Sensor Control, etc.

## ● Contact Data

Contact Arrangement	2C
Contact Material	Ag Alloy
Contact Rating	0.3A 125VAC, 1A 30VDC
Max. Switching Power	37.5VA / 60W
Max. Switching Voltage	250VAC / 220VDC
Max. Switching Current	2A
Contact Resistance	$\leq 100\text{m}\Omega$ (at 10mA 30mVDC)
Electrical Endurance	$1 \times 10^5$ (AgNi + Au plated, 0.3A 125VAC, Resistive load, at 85°C, 1s on 9s off)
Mechanical Endurance	$1 \times 10^8$

- Coil Parameter (at 23°C)

Single Side Stable

Coil Voltage (VDC)		Coil Resistance ( $\Omega \pm 10\%$ )	Pickup Voltage(max) (VDC)	Release Voltage(min) (VDC)	Coil Power Consumption (W)
Rated	Max.				
1.5	2.2	16	1.13	0.15	0.14
2.4	3.6	41	1.80	0.24	
3.0	4.5	64.3	2.25	0.30	
4.5	6.7	145	3.38	0.45	
5	7.5	178	3.75	0.50	
6	9.0	257	4.50	0.60	
9	13.5	579	6.75	0.90	
12	18.0	1028	9.00	1.20	
24	36.0	2880	18.0	2.40	0.20

1 Coil Latching

Coil Voltage (VDC)		Coil Resistance ( $\Omega \pm 10\%$ )	Set Voltage(max) (VDC)	Reset Voltage(min) (VDC)	Coil Power Consumption (W)
Rated	Max.				
1.5	3.0	22.5	1.13	1.13	0.10
2.4	4.8	58	1.80	1.80	
3.0	6.0	90	2.25	2.25	
4.5	9.0	203	3.38	3.38	
5	10.0	250	3.75	3.75	
6	12.0	360	4.50	4.50	
9	18.0	810	6.75	6.75	
12	24.0	1440	9.00	9.00	
24	36.0	5760	18.0	18.0	0.20

## ● Operation Condition

Insulation Resistance		1000MΩ min (at 500VDC)
Dielectric Strength	Between Contacts	1000VAC 1min
	Between Contact and Coil	1600VAC 1min
	Between Contact sets	1800VAC 1min
Surge Withstand Voltage	Between Contacts (10 / 160μs)	1500VAC (FCC part 68)
	Between Contact and Coil (2 / 10μs)	2500VAC (Telcordia)
Shock Resistance	Functional	735m/s <sup>2</sup>
	Endurance	980m/s <sup>2</sup>
Vibration Resistance		10~55Hz double amplitude 3.3mm
Ambient Temperature		-40 ~ +85℃
Operate Time		≤3ms
Release Time		≤3ms
Relative Humidity		5%~85%
Weight		Approx. 0.8g

## ● Ordering Information

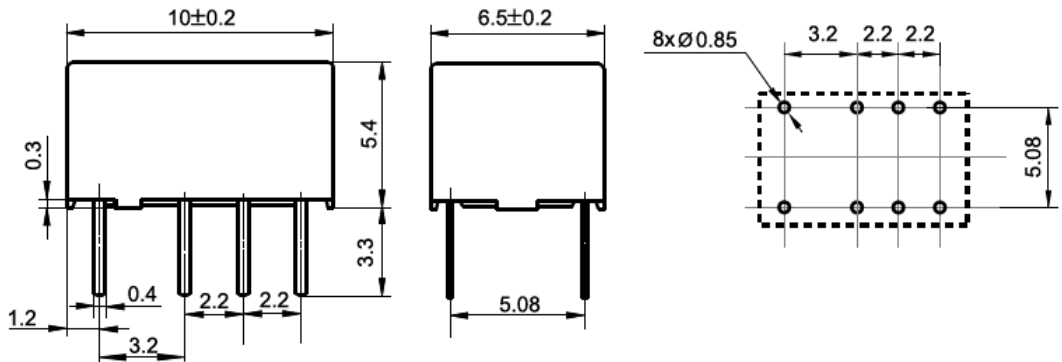
	T4	-12D	L1	-R	(XXX)
<b>Model</b>	<b>T4:</b> Standard DIP <b>T4S:</b> Standard SMT <b>T4S1:</b> Short terminal SMT				
<b>Coil Voltage</b>	1.5, 2.4, 3, 4.5, 5, 6, 9, 12, 24 VDC				
<b>Coil Sort</b>	<b>Nil:</b> Single side stable <b>L1:</b> 1 coil latching				
<b>Packing Style</b>	<b>Nil:</b> Tube packing <b>R:</b> Tape and reel packing (only for SMT type)				
<b>Special Code</b>	<b>Nil:</b> Standard <b>XXX:</b> Customer special requirement				

● Dimensions (UNIT: mm)

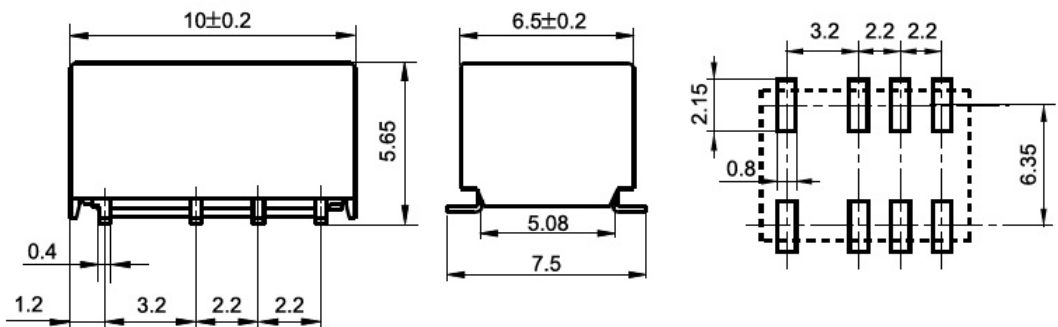
Outline Dimensions

Mounting (Bottom views)

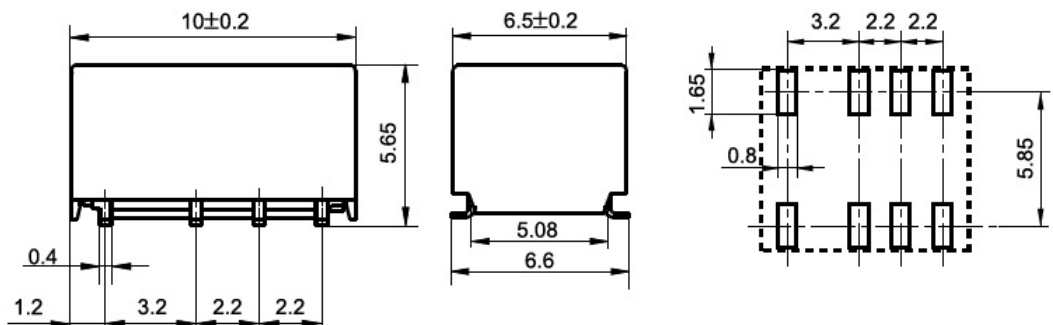
T4 type



T4S type



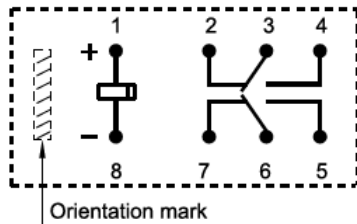
T4S1 type



## ● Dimensions (UNIT: mm)

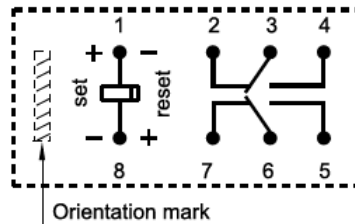
Wiring Diagram (Bottom views)

Single side stable



No energized condition

1 coil latching



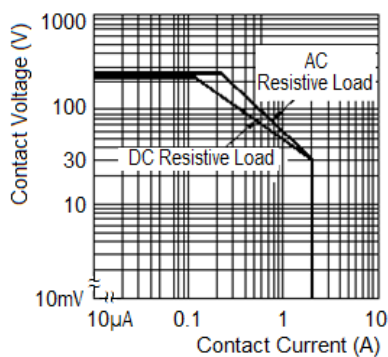
Reset condition

Remark: 1) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $>1\text{mm}$  and  $\leq 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $>5\text{mm}$ , tolerance should be  $\pm 0.4\text{mm}$ .

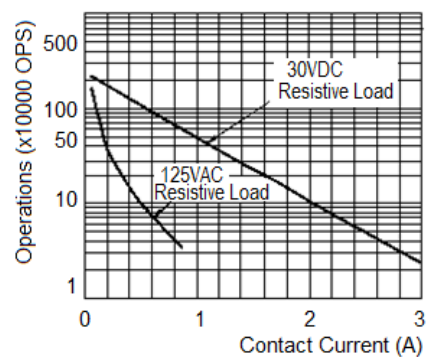
2) The tolerance without indicating for PCB layout is always  $\pm 0.1\text{mm}$ .

## ● Engineering Data

Maximum Switching Power



Endurance Curve

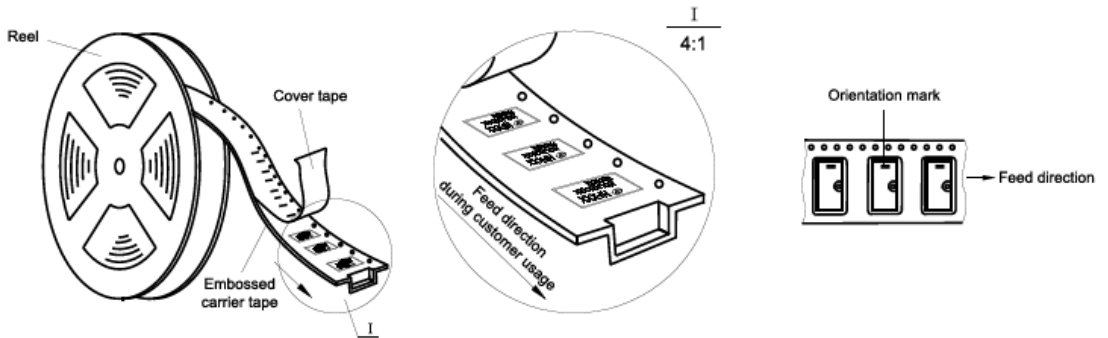


Test conditions:

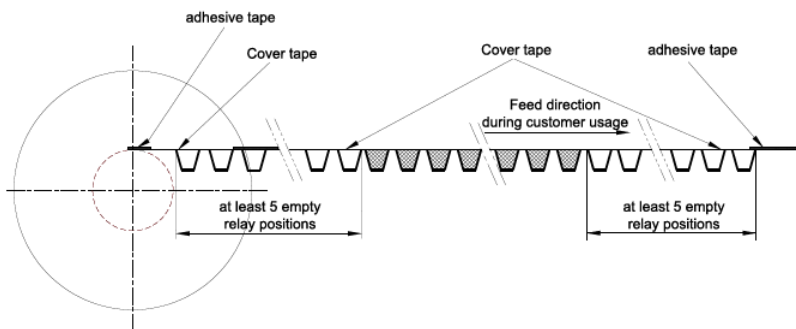
Resistive load, at  $85^{\circ}\text{C}$ , 1s on 9s off.

## ● Tape Packing

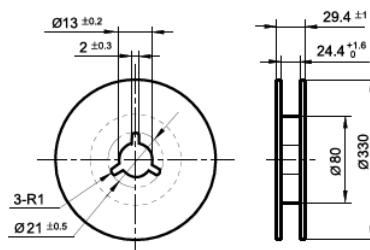
### Direction of Relay Insertion



**Notes:** 1. S type/S1 type: 1) Packing: 900pcs/reel, 4 reels/carton.  
2) MOQ for reel packing is 900pcs

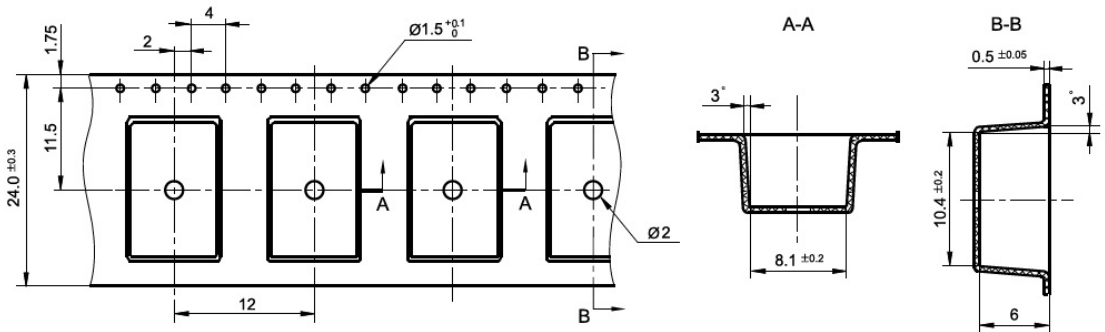


### Reel Dimensions

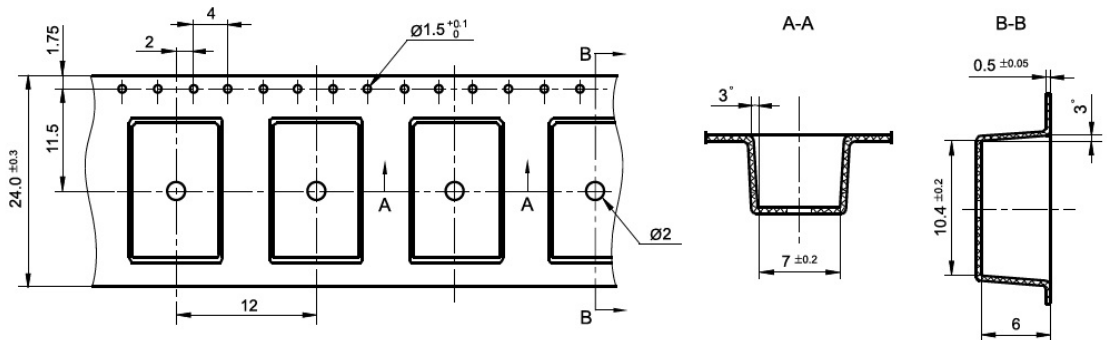


## ● Tape Packing

### Tape Dimensions (T4S type: Standard SMT)



### Tape Dimensions (T4S1 type: Short terminal SMT)



#### Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications 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 right position to choose the suitable product for their own application. If there is any query, please contact IOEC for the technical service. However, it is the user's responsibility to determine which product should be used only.