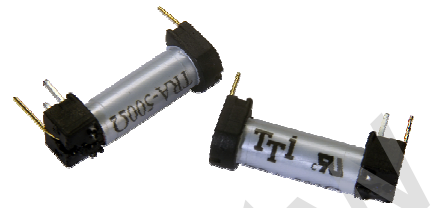




# TRA

## ➤ MAIN FEATURES

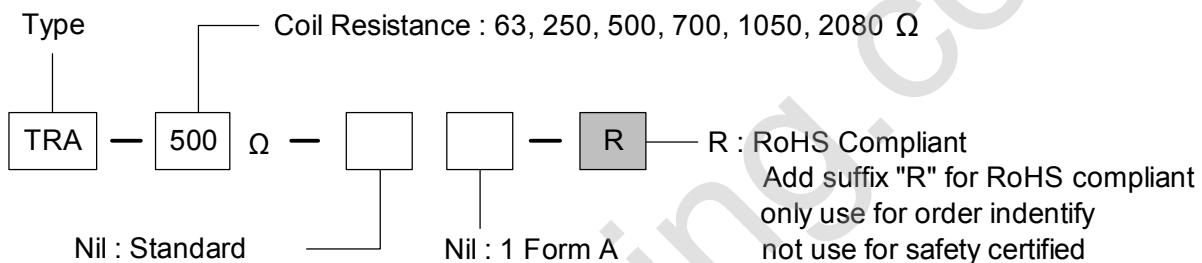
- Small size and light weight offers high density P.C. Board technique.
- Free from dust, gases, humidity, etc. by employment of glass tube sealed reed switch for high reliability contact performance.
- Switching capacity from dry circuit use by 1A selectable to comply with wide applications.
- Fast response time in addition to short bouncing time to application associated with semiconductors like transistors, I.C. 's.
- UL & cUL recognized.



## ➤ APPLICATIONS

- Communication equipment, domestic appliance, security equipment, office automation machine, etc.

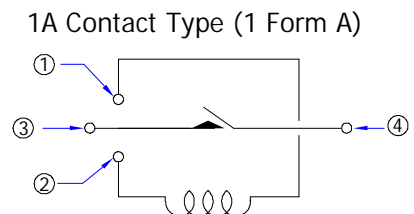
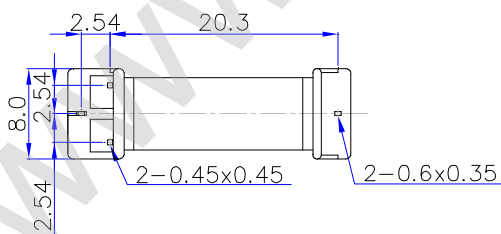
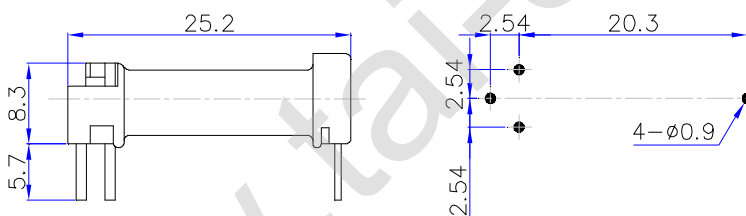
## ➤ ORDERING INFORMATION



### ■ DIMENSION (unit:mm)

### ■ DRILLING (unit:mm)

### ■ WIRING DIAGRAM



1. Coil Terminal(-)
2. Coil Terminal(+)
3. Reed Switch Terminal
4. Reed Switch Terminal

Remark: 1. In case of no tolerance shown in dimension: ±0.5mm.  
2. The tolerance without indicating for DRILLING is always ±0.1mm

## ➤ COIL DATA CHART (at 20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
TRA	03	3	47.6	63	abt. 0.05 to 0.28 W	70% Max.	10% Min.	160%
	05	5	10.0	500				
	06	6	24.0	250				
	09	9	12.9	700				
	12	12	11.4	1050				
	24	24	11.5	2080				

## ➤ CONTACT RATING

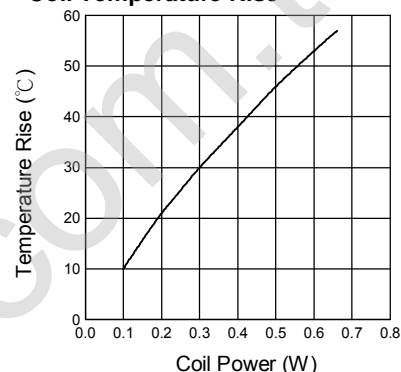
Item	Type	TRA
Contact Capacity Resistive Load (cos=1)		0.1A 125VAC 0.5A 24VDC
Rated Carrying Current		0.5A
Max. Allowable Voltage		100VDC
Max. Allowable Current		0.5A
Max. Allowable Power Force		10VA 10W
Referenced Min		1 VA 1 mA

## ➤ PERFORMANCE (at initial value)

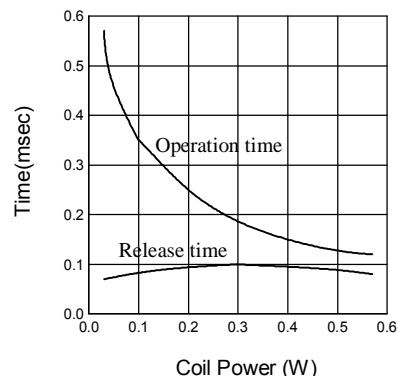
Item	Type	TRA
Contact Resistance		150mΩ Max.
Operation Time		1.0msec Max.
Release Time		0.5msec Max.
Dielectric Strength		3000VDC(1 second) 200VDC(1 second)
Surge Resistiveness		3000V(between coil & contacts 1 × 40 usec.)
Insulation Resistance		100 MΩ Min. (500VDC)
Max. ON/OFF Switching		300 operation/min 30 operation/min
Operating Ambient Temperature		-30 to +60°C (No water condensation and no water drop)
Operating Humidity		45 to 85% RH
Coil Temperature Rise		30 deg. Max. (at rated coil voltage)
Vibration		10 to 55Hz Double Amplitude 1.5mm Error Operation
Shock		100G Min. 13G Min.
Life Expectancy		5 × 10 <sup>7</sup> ops. Min. (no load) 2 × 10 <sup>6</sup> ops. Min. (at rated load) 1 × 10 <sup>7</sup> ops. Min. (6V 10mA)
Weight		abt. 4.5grs.
UL & cUL		E156521

## ➤ REFERENCE DATA

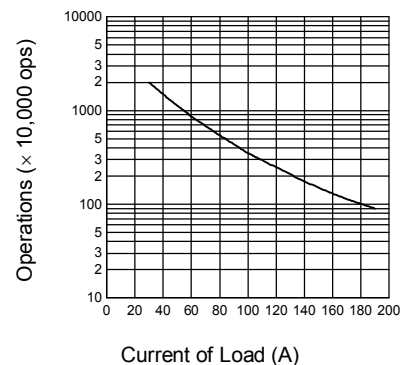
Coil Temperature Rise



Operation Time



Life Expectancy



This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing. (0939A08VOL01)