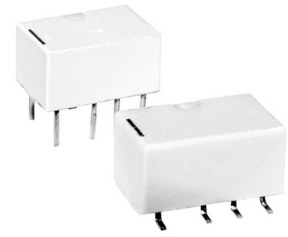


TRGQ



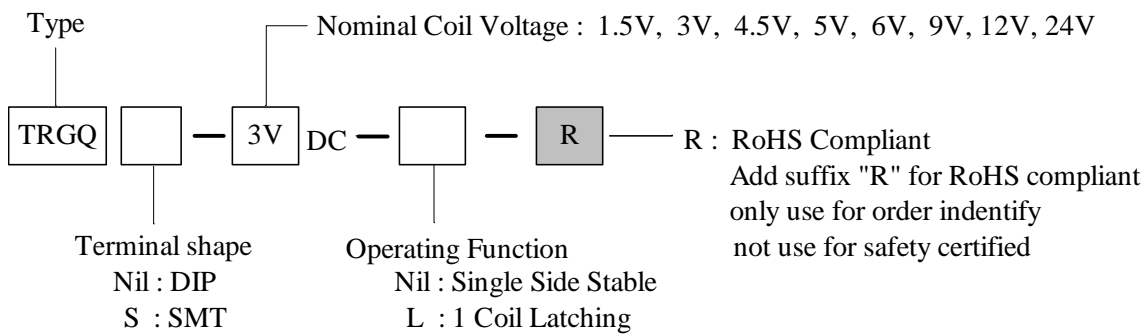
MAIN FEATURES

- Offers excellent board space savings
- Surge withstand voltage up to 2500V, meets FCC Part 68 and Telecordia
- Meets EN60950/EN41003
- SMT and DIP types available
- High contact capacity 2A 30VDC
- Low power consumption
- Single side stable and latching type available

APPLICATIONS

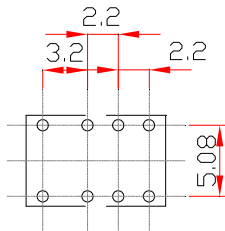
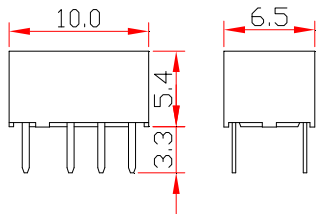
- Application for Telecommunication Equipment, Office Equipment, Security Alarm Systems, Measuring instruments, Medical Monitoring Equipment, Audio Visual Equipment, Flight Simulator, Sensor Control.

ORDERING INFORMATION

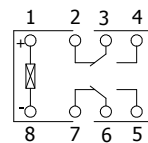


DIMENSION (unit:mm) DRILLING (unit:mm) WIRING DIAGRAM

DIP TYPE

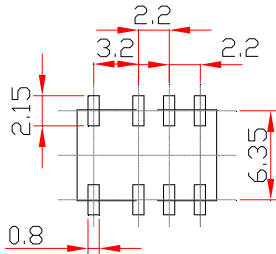
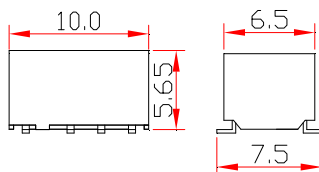


Single Side Stable

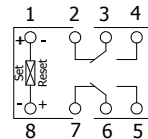


No energized condition

SMT TYPE



1 Coil Latching



reset condition

COIL DATA CHART (AT20°C)

Coil Sensitivity	Coil Voltage (VDC) Rated	Nominal Current (mA)	Coil Resistance (Ω) $\pm 10\%$	Coil Power (W)	Pickup voltage (VDC) Max. (75% of rated voltage)	Release voltage (VDC) Min. (10% of rated voltage)	Max Allowable Voltage (VDC)
Single Side Stable	1.5	93.8	16	0.14	1.13	0.15	2.2
	3	46.7	64.3	0.14	2.25	0.3	4.5
	4.5	31.0	145	0.14	3.38	0.45	6.7
	5	28.1	178	0.14	3.75	0.5	7.5
	6	23.3	257	0.14	4.5	0.6	9.0
	9	15.5	579	0.14	6.75	0.9	13.5
	12	11.7	1028	0.14	9.0	1.2	18.0
1 Coil Latching	24	8.3	2880	0.20	18.0	2.4	36.0
	1.5	66.7	22.5	0.10	1.13	1.13	3.0
	3	33.3	90	0.10	2.25	2.25	6.0
	4.5	22.2	203	0.10	3.38	3.38	9.0
	5	20.0	250	0.10	3.75	3.75	10.0
	6	16.7	360	0.10	4.5	4.5	12.0
	9	11.1	810	0.10	6.75	6.75	18.0
	12	8.3	1440	0.10	9.0	9.0	24.0
	24	8.3	2880	0.20	18.0	18.0	36.0

CONTACT RATING

Item	Type	TRGQ
Contact Capacity Resistive Load (cos Φ =1)		2A / 30VDC 0.5A / 125VAC
Max. Switching Voltage		220VDC/250VAC
Max. Switching Current		2A
Max. Switching Power Force		60W, 62.5VA
Referenced Min. Applicable Load		10mV 10uA
Contact Material		Ag Alloy

PERFORMANCE (at initial value)

Item	Type	TRGQ
Contact Resistance		70m Ω
Operation Time		Approx. 3msec
Release Time		Approx. 3msec
Dielectric Strength		
Between coil & contacts		1500VAC 1 min.
Between open contacts		1000VAC 1 min.
Between Contact sets		1000VAC 1 min.
Surge Withstand Voltage		
Between open Contacts(10x160us)		1500V (FCC part 68)
Between coil & Contacts(2x 10us)		2500V (Telecordia)
Shock Resistance		
Functional		735m/s ²
Destructive		980m/s ²
Vibration Resistance		
Functional		3.3mm D.A. 10 to 55Hz
Destructive		5.0mm D.A. 10 to 55Hz
Temperature Range		-40°C to 85°C
Humidity		98% RH, 40°C
Insulation Resistance		1000 M Ω Min. (at 500VDC)
Life Expectancy		
Electrically		1 \times 10 ⁵ ops. Min. (2A/30VDC) 1 \times 10 ⁵ ops. Min. (0.5A/125VAC)
Mechanically		1 \times 10 ⁸ ops. Min.
Weight		0.8g
UL		E156521

This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing. (1420AA09VOL01)