



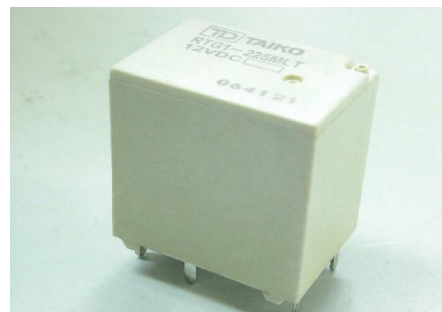
Taiko Device Techno & Co., Ltd. RTG1 RELAY SPECIFICATION

All data are at 20°C ambient temperature unless otherwise noted.

Miniature High Current PCB relay.

Covers a broad range of the automotive applications.

The relays are lead free / RoHS compliant.



RTG1

Available Standard Types

RTG1	Reflow Type	reflow solderable	125°C	max. ambient temperature
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* The standard "R" types have a vent-hole in the cover (Letter T appended)

Special Features available: (see nomenclature page)

Available Coil Options

Coil Resistance	Coil Inductance	Nominal Power	Operate Voltage	Operate Power	Release Voltage
320 Ω	869 mH	0.450 W	7.0 V	0.153 W	0.8 V
225 Ω	595 mH	0.640 W	6.5 V	0.188 W	0.8 V

(±10%)

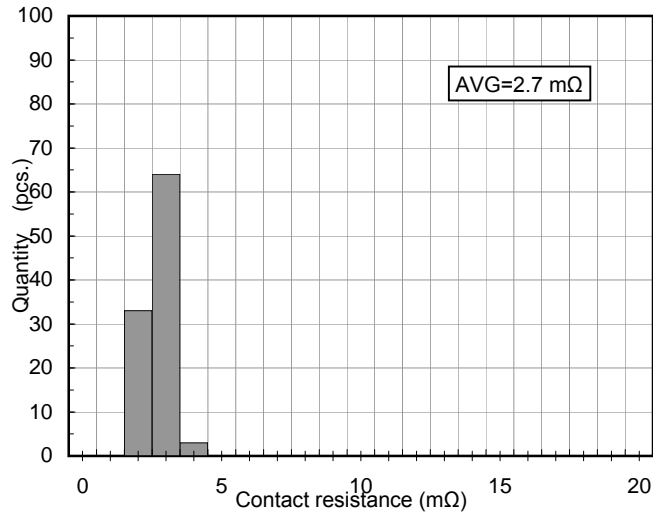
ITEM	SPECIFICATION
Contact Arrangement	1 Form A / 1 Form C
Contact Material	AgSnO ₂ Alloy
Contact Resistance	Typical 3 mΩ (Max. 50mΩ at 6 VDC 1A)
Contact Rated Load	25A at 14VDC Motor load (Locked Rotor) / 120W at 14VDC Lamp load (N/O Contact)
Max. Switching Current/ Voltage	40A at 16VDC or less
Max. Continuous Current at 20 °C	30A at 14VDC for 1hours
Min. Switching Current (recommended)	1A at 12VDC
Dielectric Strength	500VAC for 1 minute (between coil and contact)
	500VAC for 1 minute (between open contacts)
Insulation Resistance	Min 100MΩ (at 500VDC)
Operate Time	Typical 5.5 ms (at 12VDC/20 °C)
Release Time	Typical 1.5 ms (without diode parallel to coil)
Shock resistance	False Operation Min 98m/s ² (10G) :Shock wave 11ms
	Endurance Min 980m/s ² (100G) :Shock wave 6ms
Vibration resistance	False Operation Min 43m/s ² (4.4G) at 10 to 500Hz
	Endurance
Mechanical Life (no load)	Min 10×10 ⁶ Operations(300 cycles/minute)
Electrical Life at rated load	Min 1.0×10 ⁵ Operations(1 sec. ON/ 9 sec. OFF)
Ambient Temperature range	-40°C to 125°C ,Max 85%RH
Weight	Approx. 12g

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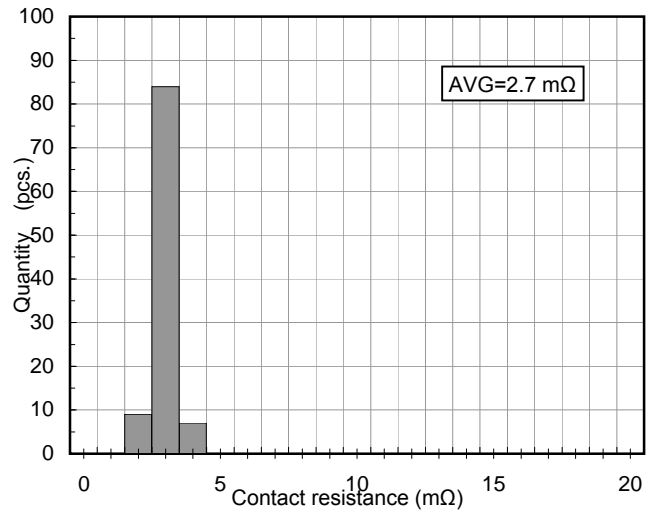
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TECHNICAL REFERENCE DATA FOR THE RTG1-320 RELAY

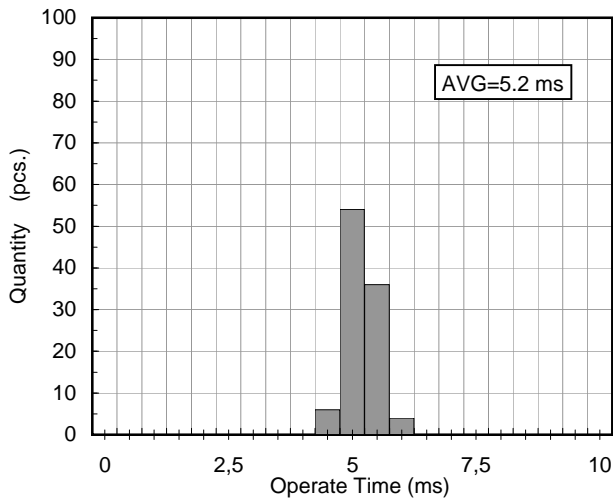
Contact Resistance of the N/O contact



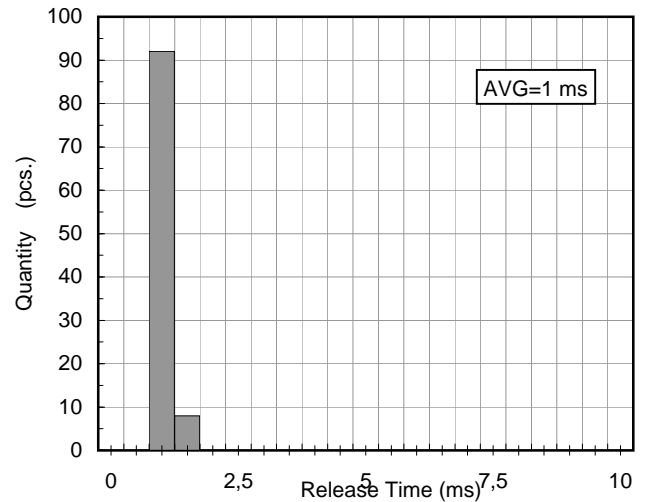
Contact Resistance of the N/C contact



Operate Time with 12 V

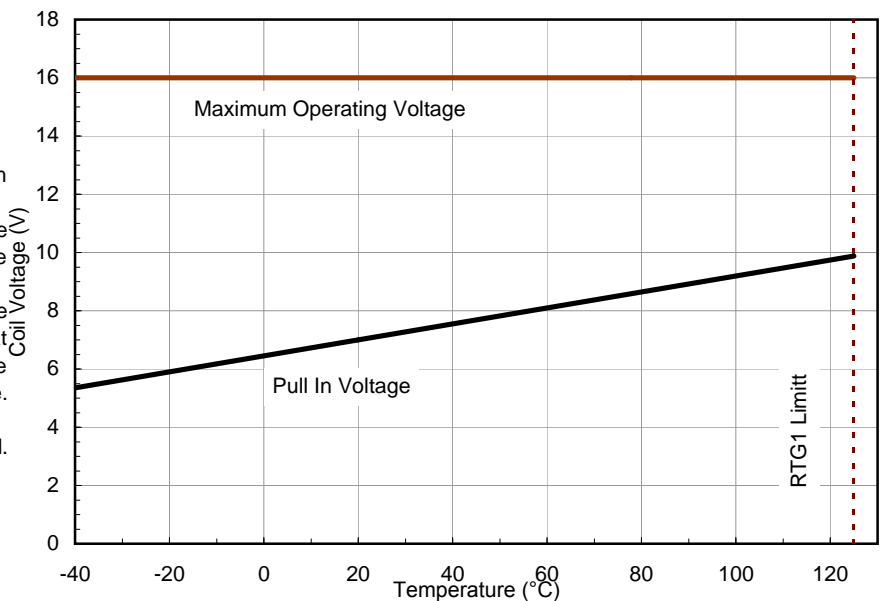


Release Time without diode



Operating Voltage Range

Please note, that this diagram shows the Pull In Voltage range for coil at ambient temperature and the Maximum Voltage is either 16 V or the voltage that over time brings the coil to the max. allowed temperature. No Load Current considered.

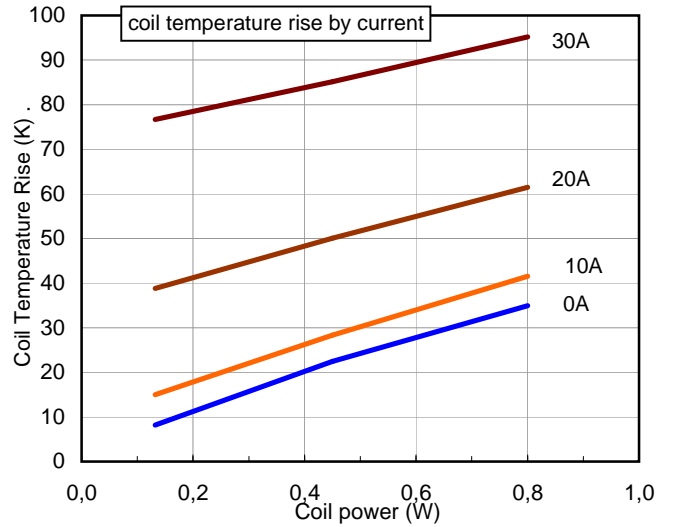
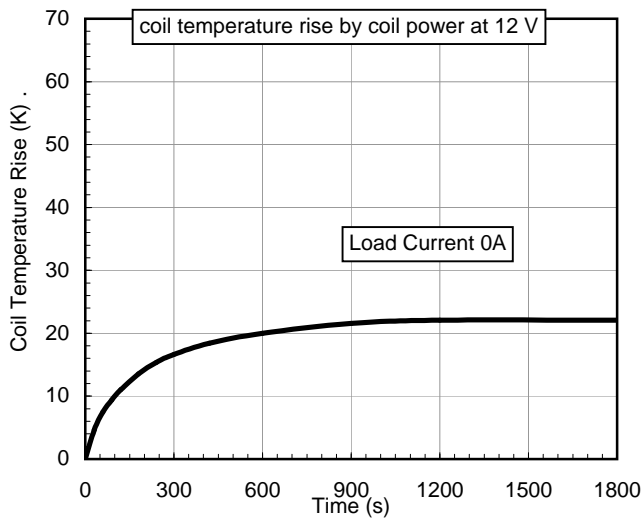


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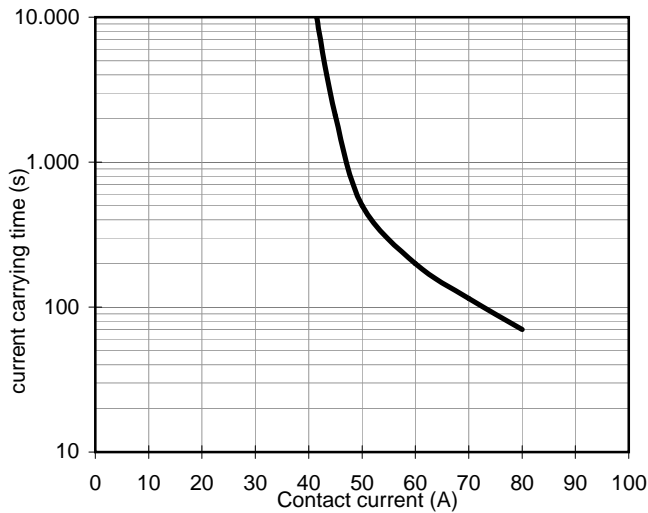
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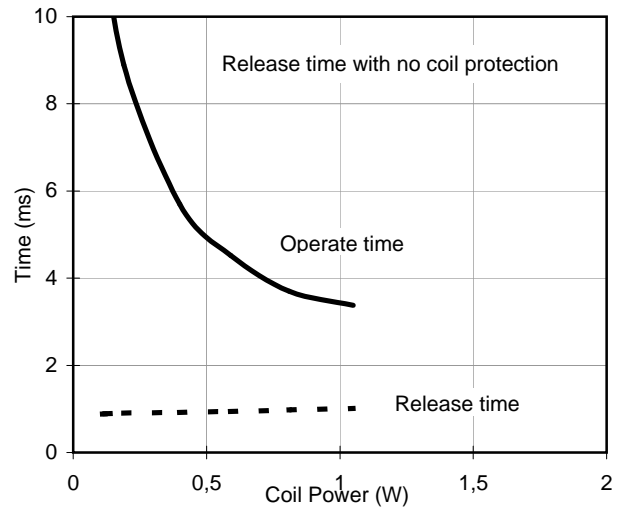
Coil temperature rise



Over current limit



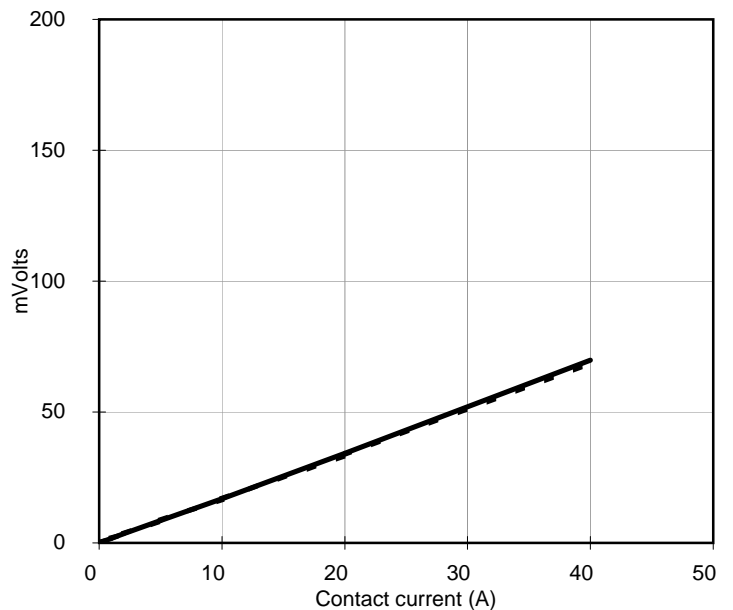
Operate and Release Time



Contact voltage drop over the NO contact

- increasing current
- - - decreasing current

This diagram shows the voltage drop over current for the NO contact during the increase of the current and during the decrease



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External Dimensions / Wiring Diagram / PCB Pin Layout

Fig 1: External Dimensions

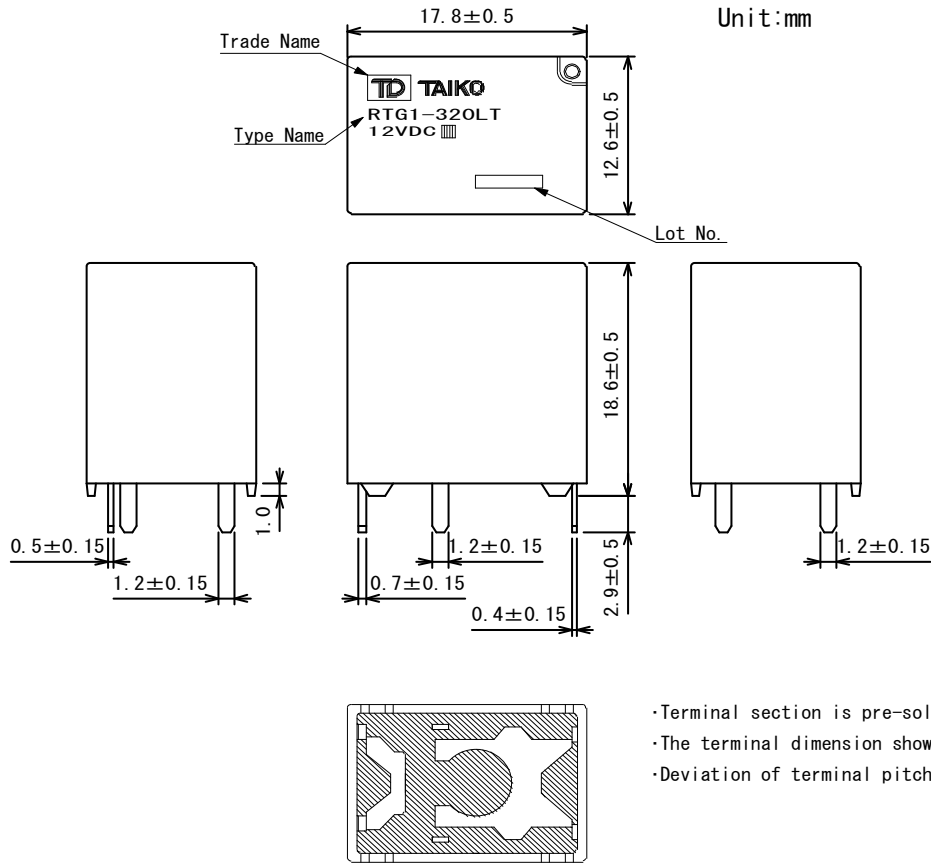


Fig.2.Wiring diagram
(BOTTOM VIEW)

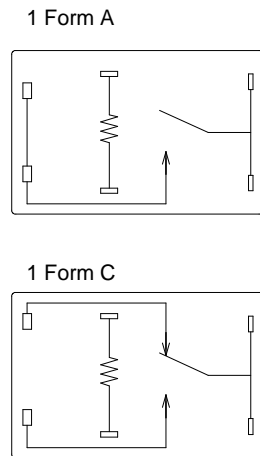
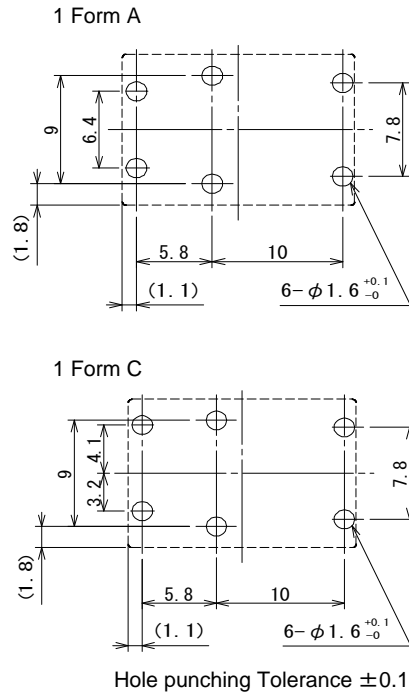


Fig.3.PCB pin layout(Reference figure)
(BOTTOM VIEW)



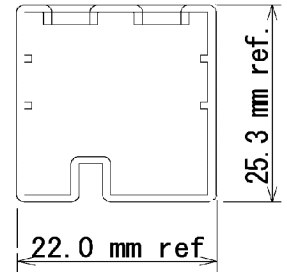
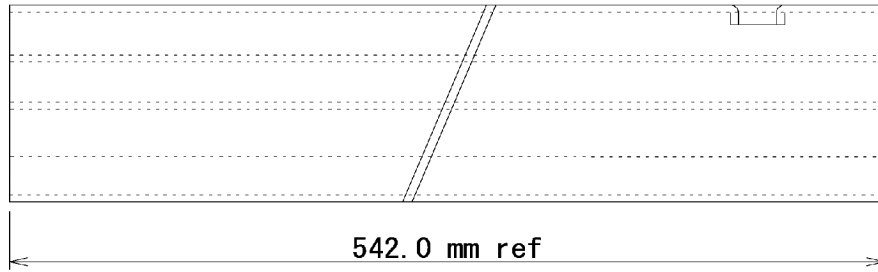
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Packaging specification

Standard Tube Packaging

40 relays per tube, 20 tubes per box (800 relays per box)



Notes:

For further information, please contact Taiko device Techno.

Disclaimer:

The above information is for information only and with no responsibility, not binding and can be changed any time.
Taiko Device Techno cannot be held responsible for typos, or misprints.