



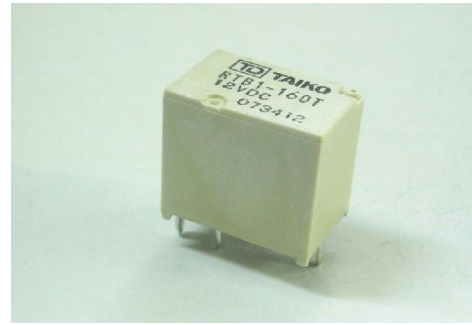
Taiko Device Techno & Co., Ltd. RTB1 RELAY SPECIFICATION

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

Miniature High Power PCB relay.

Covers a broad range of the automotive applications.

The relays are lead free / RoHS compliant.



RTB1

Available Standard Types

RTB1	Standard 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
160 Ω	227 mH	0.900 W	6.5 V	0.264 W	0.8 V
100 Ω	143 mH	1.440 W	5.5 V	0.303 W	0.5 V
225 Ω	310 mH	0.640 W	7.7 V	0.264 W	0.8 V

±10%

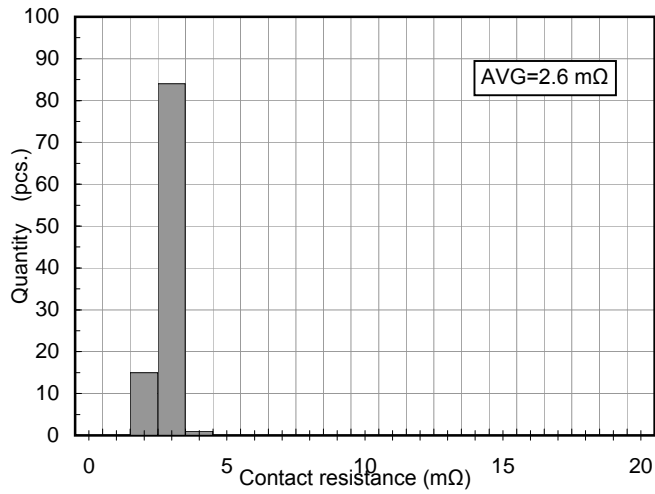
ITEM	SPECIFICATION
Contact Arrangement	1 Form C / 1 Form A
Contact Material	AgSnO ₂ Alloy
Contact Resistance	Typical 4 mΩ (max 50mΩ at 6 VDC 1A)
Contact Rated Load	25A at 14VDC Motor load (Locked Rotor)
Max. Switching Current/ Voltage	30A at 16VDC
Max. Continuous Current at 20 °C	25A at 14VDC for 10minutes
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 3 ms (at 12VDC/ 20)
Release Time	typical 1.5 ms with no 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 0.1×10 ⁶ Operations(1 sec. ON/ 9 sec. OFF)
Ambient Temperature range	-40°C to 125°C max.
Weight	Approx. 5g

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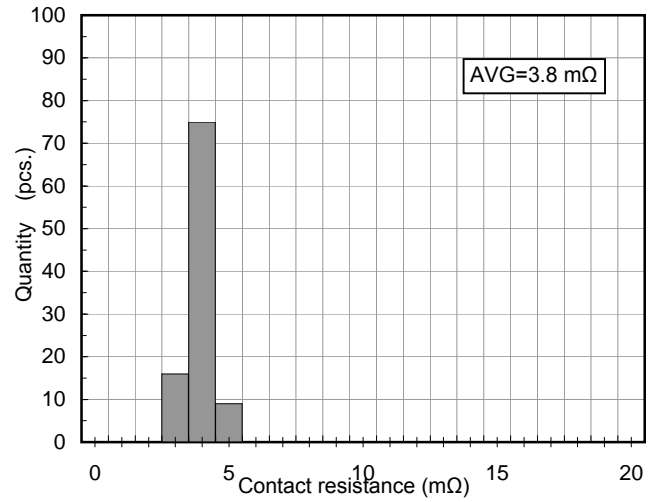
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TECHNICAL REFERENCE DATA FOR THE RTB1-160 RELAY

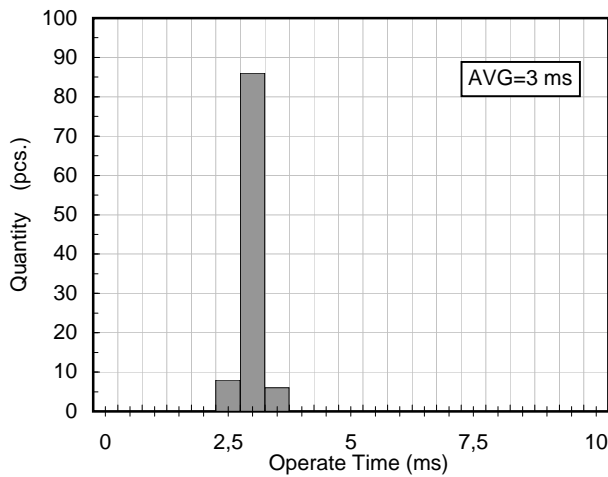
Contact Resistance of the N/O contact



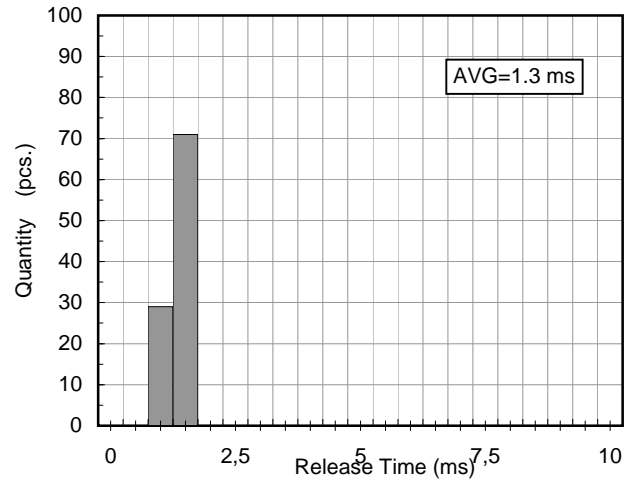
Contact Resistance of the N/C contact



Operate Time with 12 V

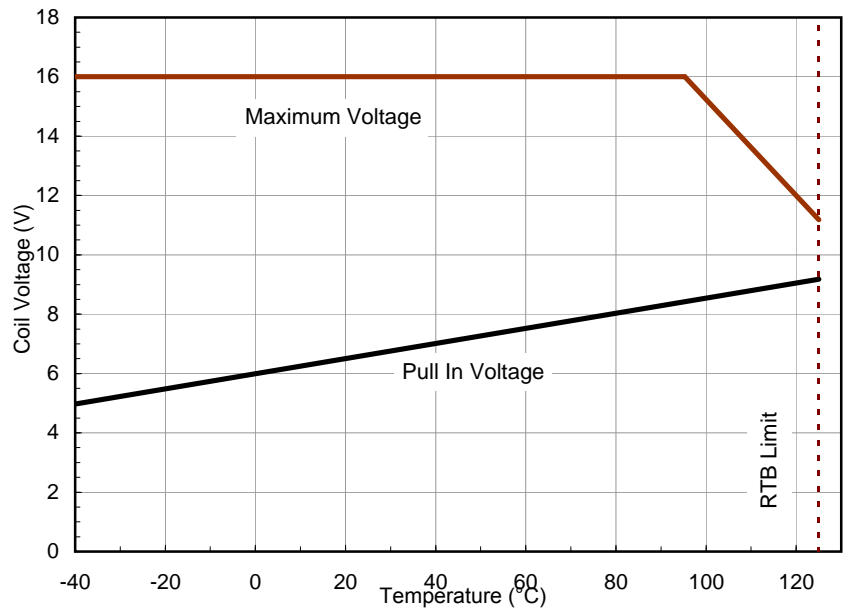


Release Time without diode



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.

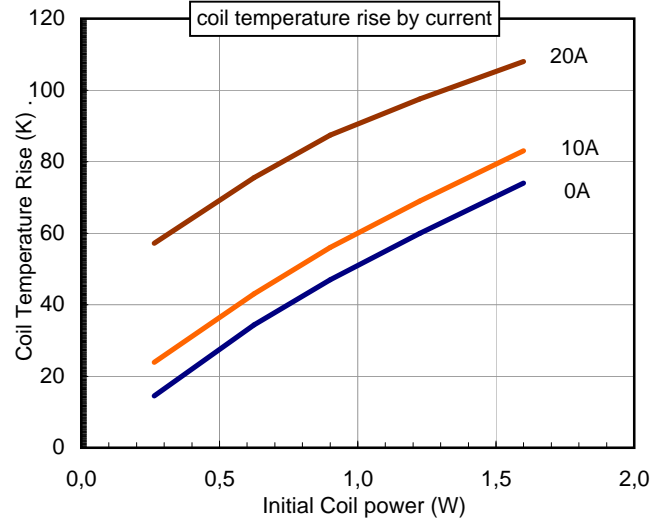
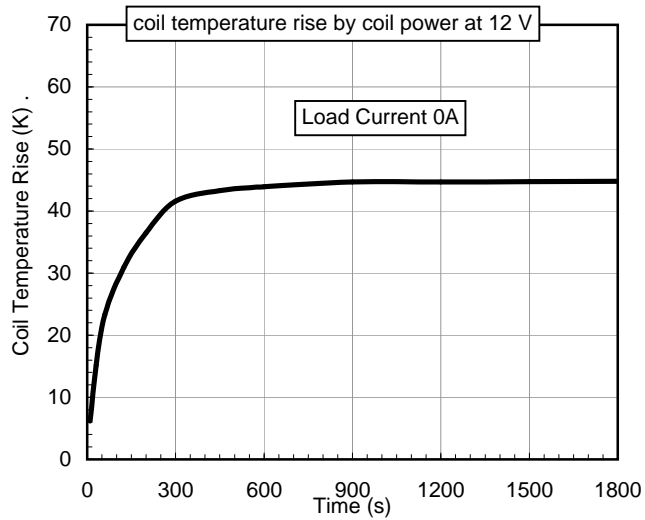


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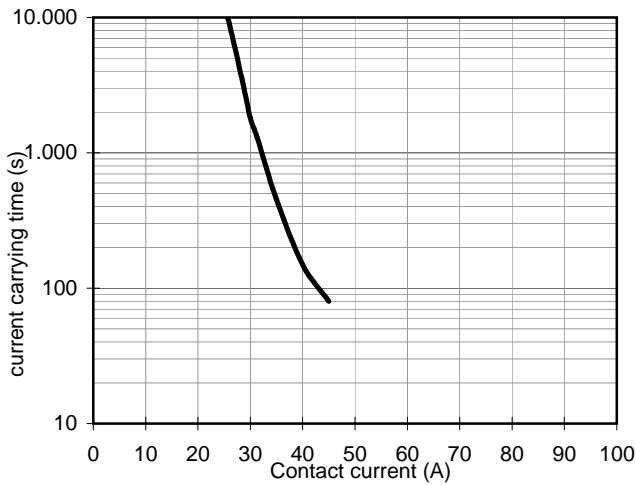
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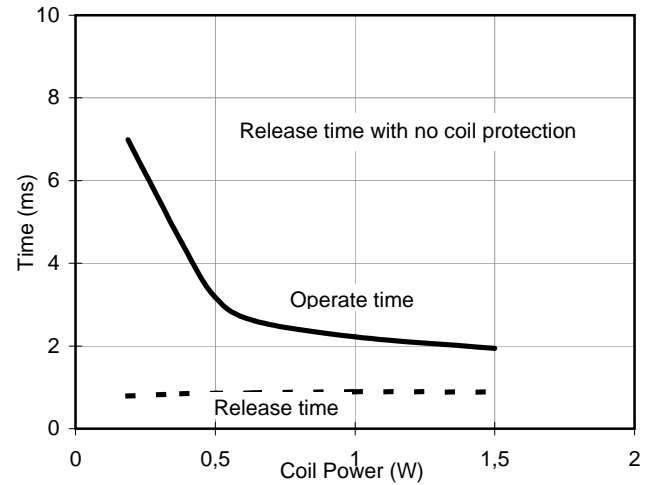
Coil temperature rise



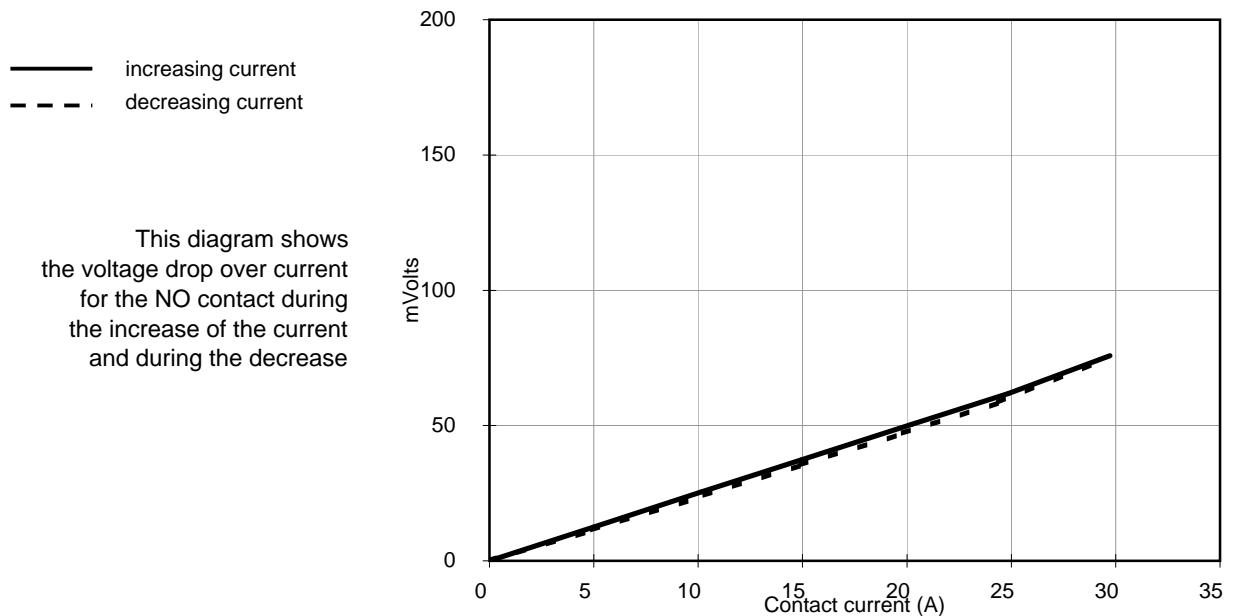
Over current limit



Operate and Release Time



Contact voltage drop over NO contact



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External Dimensions / Wiring Diagram / PCB Pin Layout of the RTB1 Relay

Fig.1. External dimensions

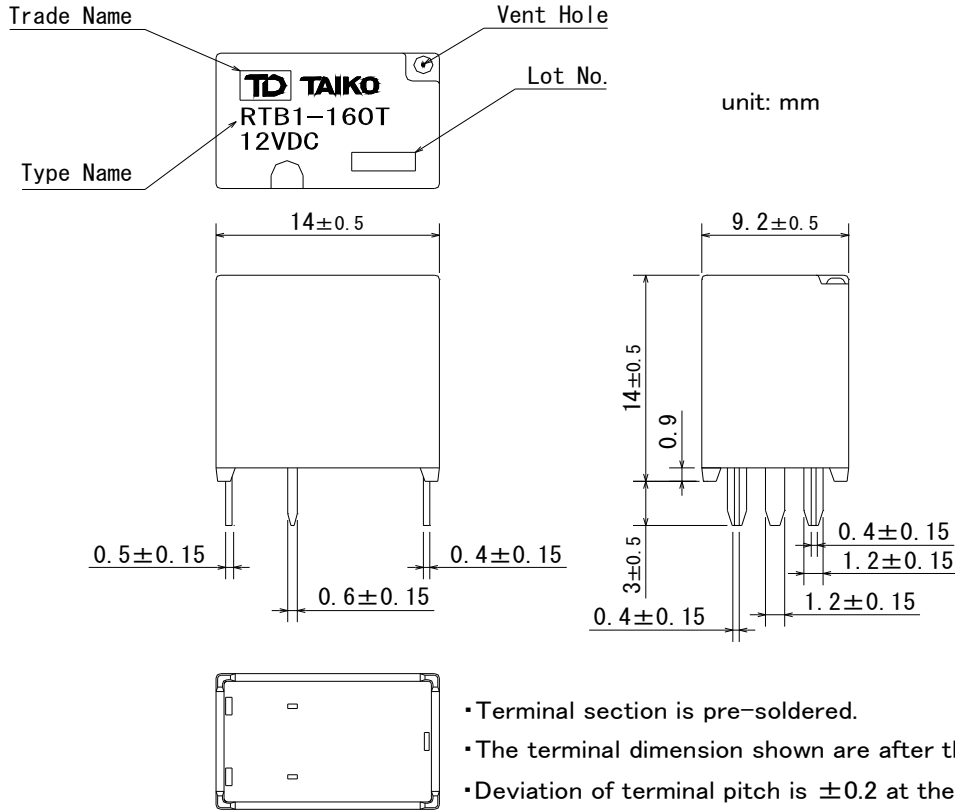


Fig.2. Wiring diagram
(BOTTOM VIEW)

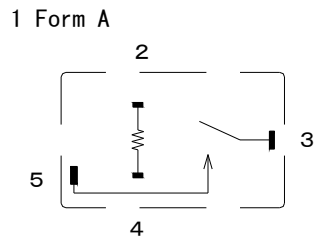
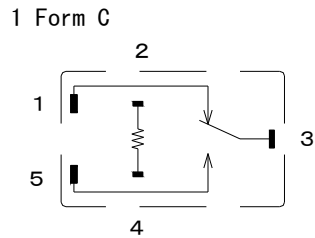
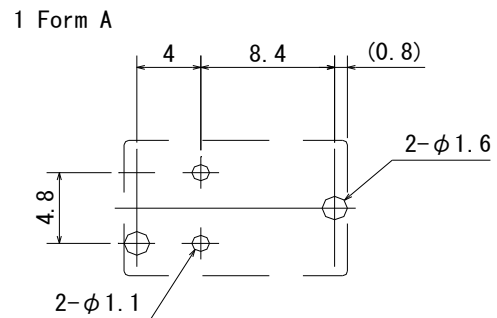
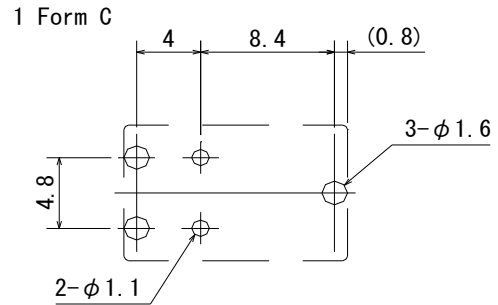


Fig.3. PCB pin layout (Reference figure)
(BOTTOM VIEW)



Hole punching tolerance ± 0.1

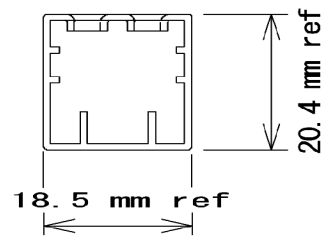
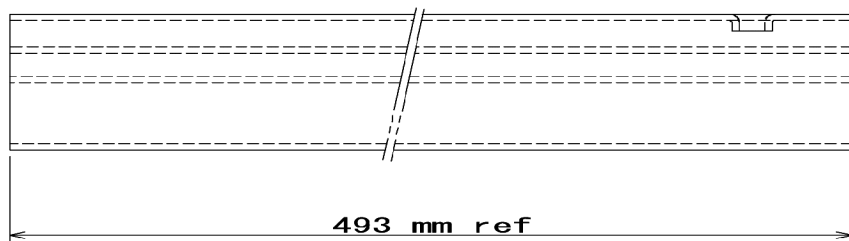
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Packaging specification

Standard Tube Packaging

50 relays per tube, 40 tubes per box (2000 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.