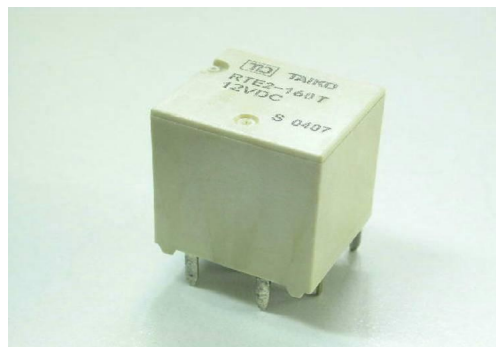


All data are at 20°C ambient temperature unless otherwise noted.

Miniature High Power PCB relay
for motor reverse applications.

Covers a broad range of
automotive applications.

The relays are lead free / RoHS compliant.



RTE2

Available Standard Types

RTE2	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	138 mH	0.900 W	6.5 V	0.264 W	0.8 V
110 Ω	95 mH	1.309 W	5.5 V	0.275 W	0.6 V
220 Ω	185 mH	0.655 W	7.7 V	0.270 W	0.8 V
±10%					

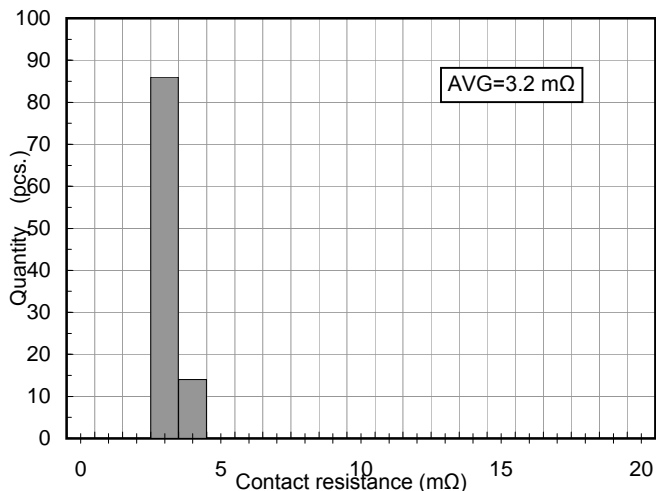
ITEM		SPECIFICATION
Contact Arrangement		H-bridge
Contact Material		AgSnO ₂ Alloy
Contact Resistance per contact		Typical 5 mΩ (max 50mΩ at 6 VDC 1A)
Contact Rated Load		25A at 14VDC Motor load (Locked Rotor)
Max. Switching Current/ Voltage		30A at 16VDC
Max. Continuous Current at 20 °C		25A at 14VDC 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 °C)
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 85%RH
Weight		Approx. 6.3g

Taiko Device Techno & Co., Ltd. RTE2 RELAY SPECIFICATION

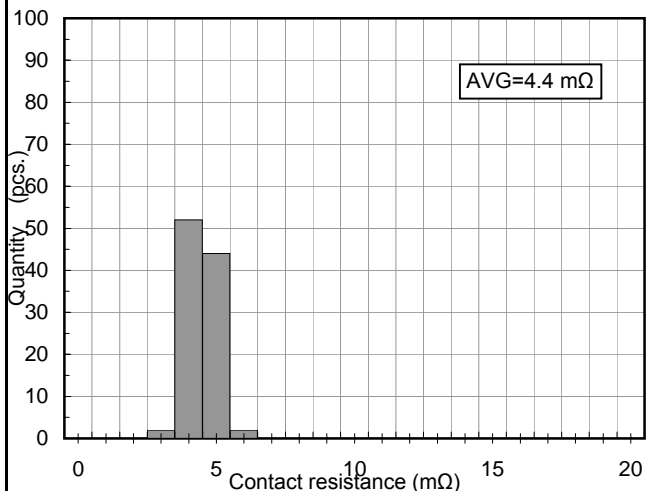
All data are at 20°C ambient temperature unless otherwise noted.

TECHNICAL REFERENCE DATA FOR THE RTE2-160 RELAY

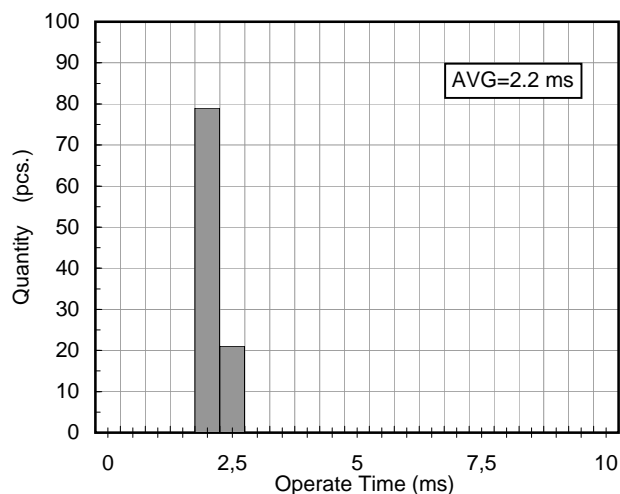
Contact Resistance of the N/O contact



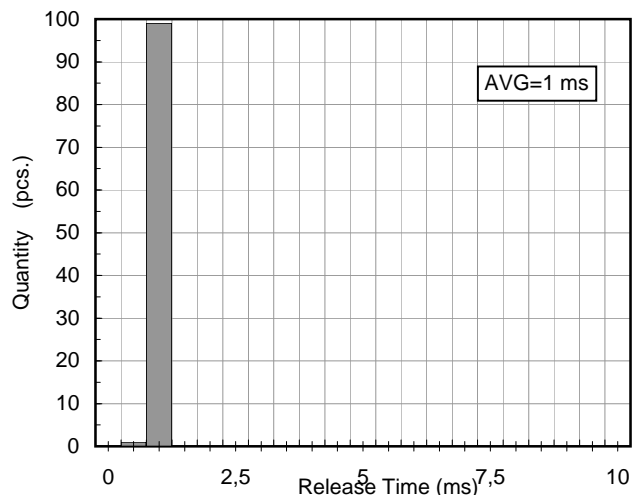
Contact Resistance of the N/C contact



Operate Time with 12 V

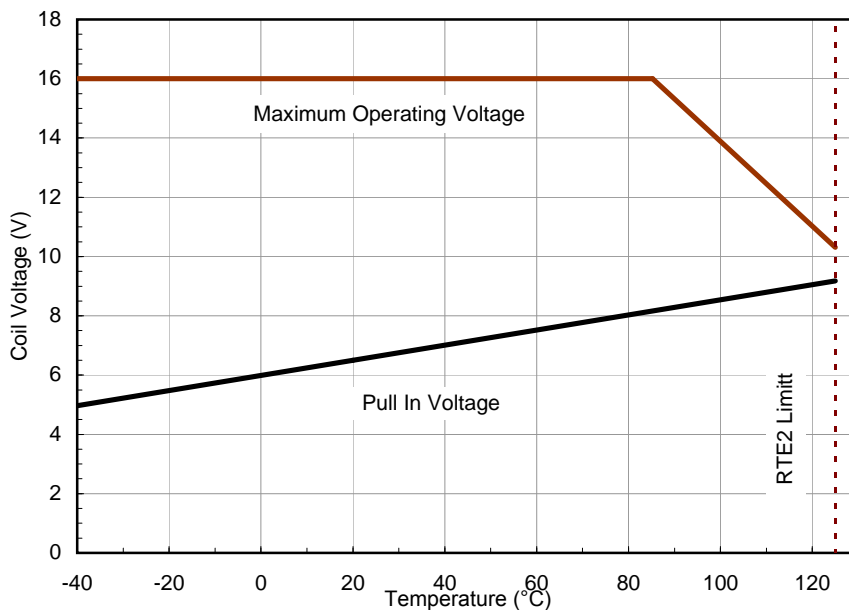


Release Time without diode



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.

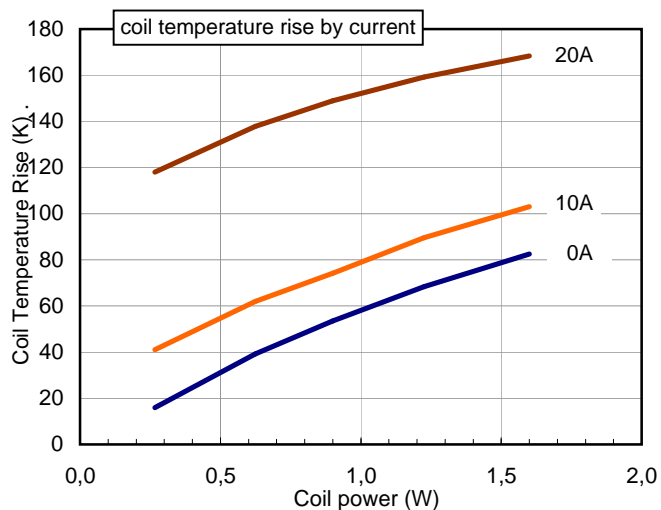
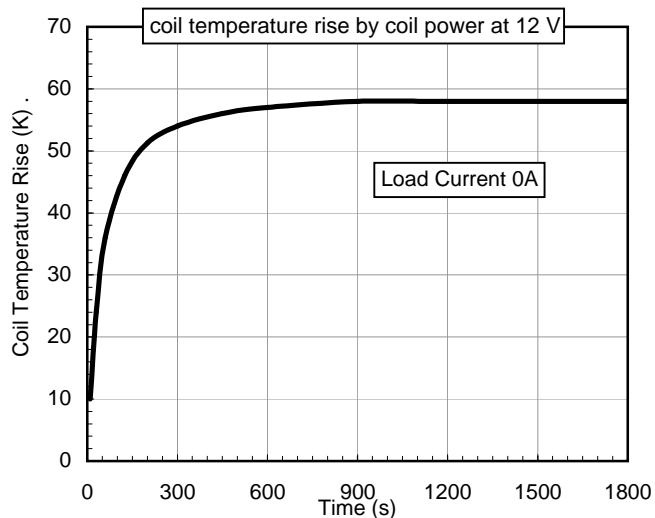


Taiko Device Techno & Co., Ltd. RTE2 RELAY SPECIFICATION

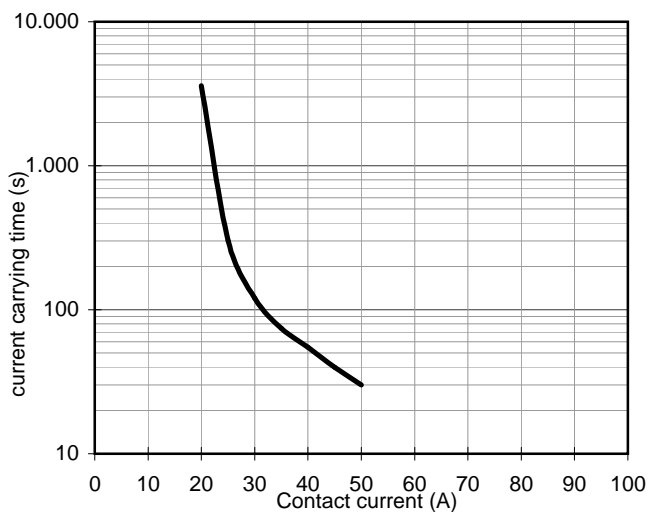
All data are at 20°C ambient temperature unless otherwise noted.

TECHNICAL REFERENCE DATA FOR THE RTE2-160 RELAY

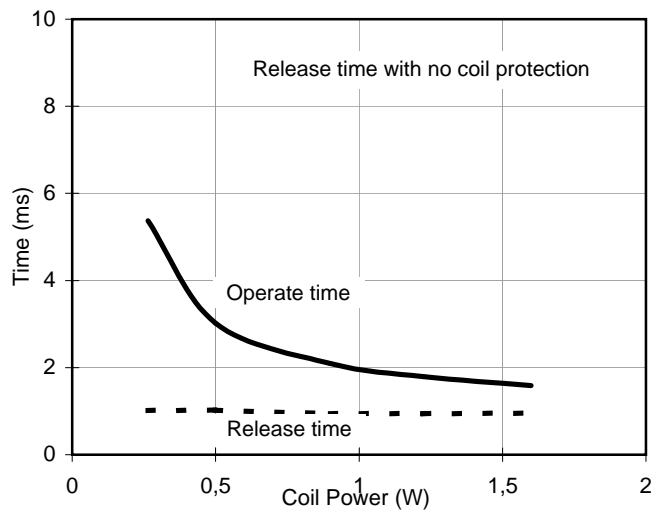
Coil temperature rise



Over current limit



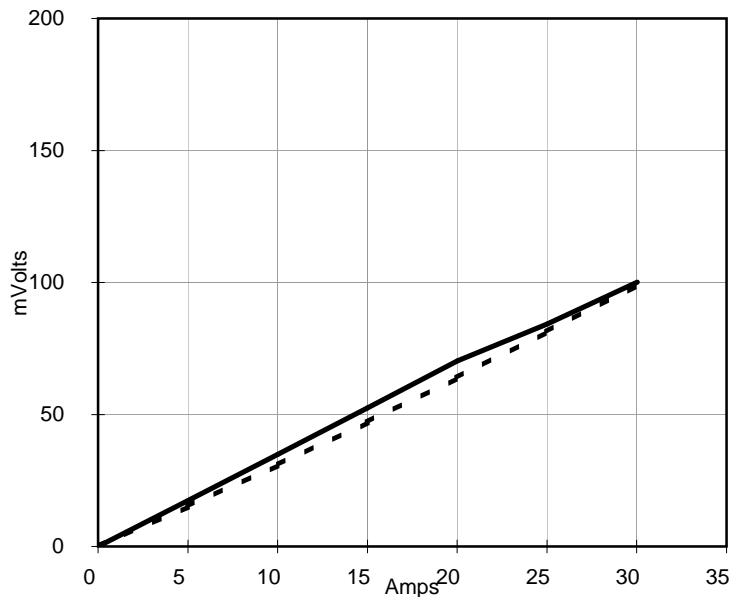
Operate and Release Time



Contact voltage drop

- 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



Taiko Device Techno & Co., Ltd. RTE2 RELAY SPECIFICATION

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

External Dimensions / Wiring Diagram / PCB Pin Layout

Fig 1: External Dimensions

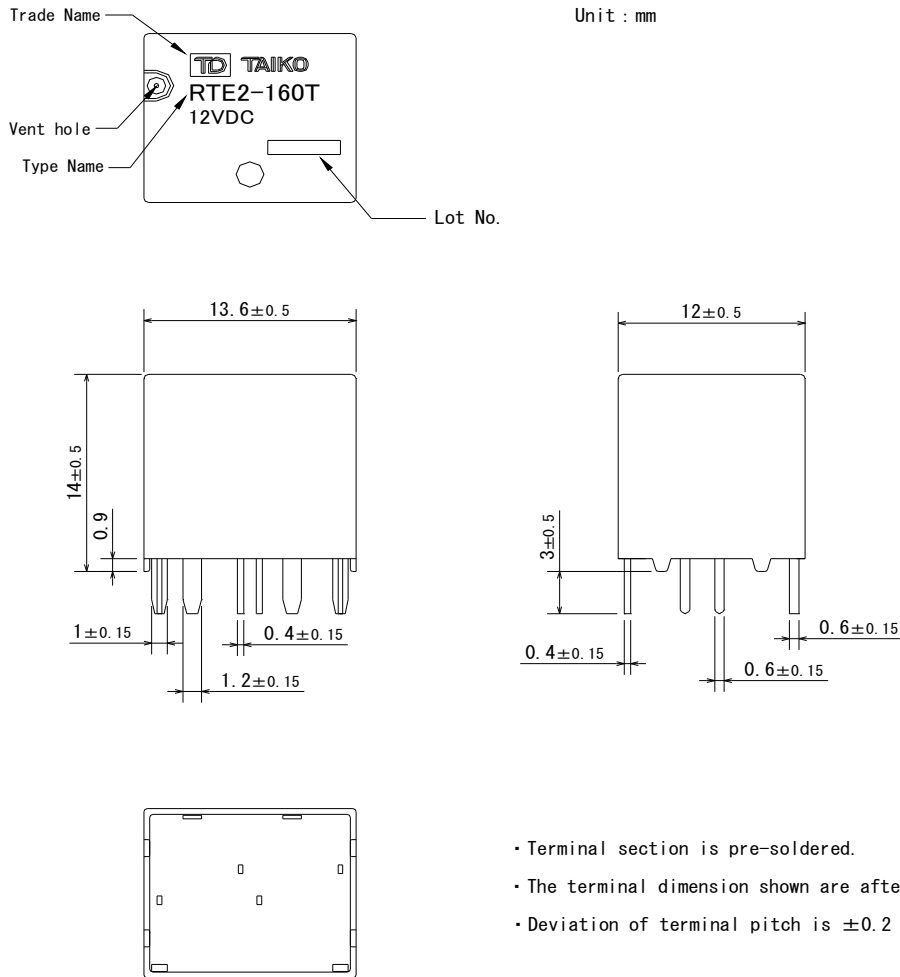


Fig. 2. Wiring diagram
(BOTTOM VIEW)

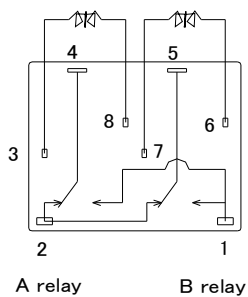
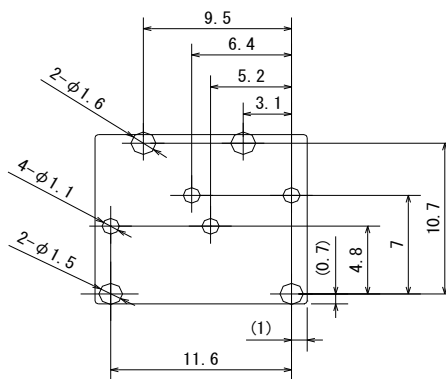


Fig. 3. PCB pin layout (Reference figure)
(BOTTOM VIEW)



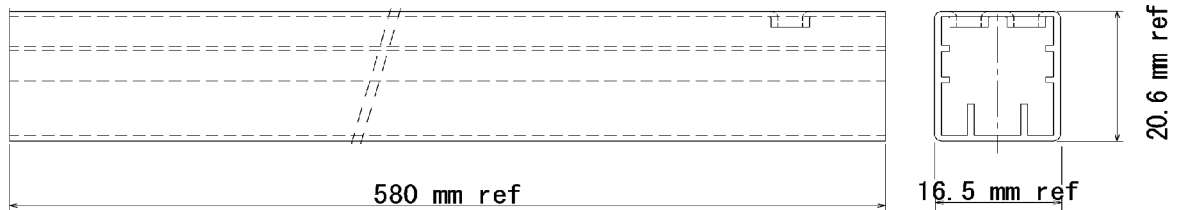
Taiko Device Techno & Co., Ltd.
RTE2 RELAY SPECIFICATION

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

Packaging specification

Standard Tube Packaging

40 relays per tube, 50 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.