



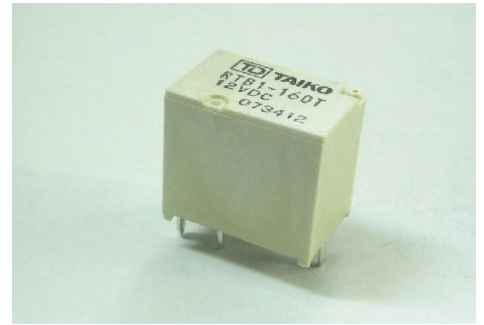
Taiko Device Techno & Co., Ltd. RTE1 RELAY SPECIFICATION

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.



RTE1

Available Standard Types

RTE1	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
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%

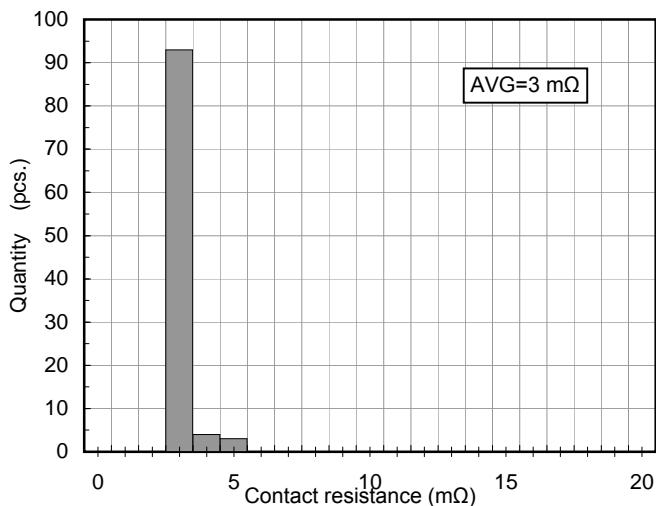
ITEM	SPECIFICATION
Contact Arrangement	1 Form C
Contact Material	AgSnO ₂ Alloy
Contact Resistance	Typical 4 mΩ (max 50mΩ at 6 VDC 1A)
Contact Rated Load	25A at 14VDC Motor load (Locked Rotor)
Max. Switching Current/ Voltage	30A at 16VDC
Max. Continuous Current at 20 °C	25A at 14VDC for 2minutes
Min. 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 2 ms (at 12VDC/ 20)
Release Time	typical 1 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. 3.2g

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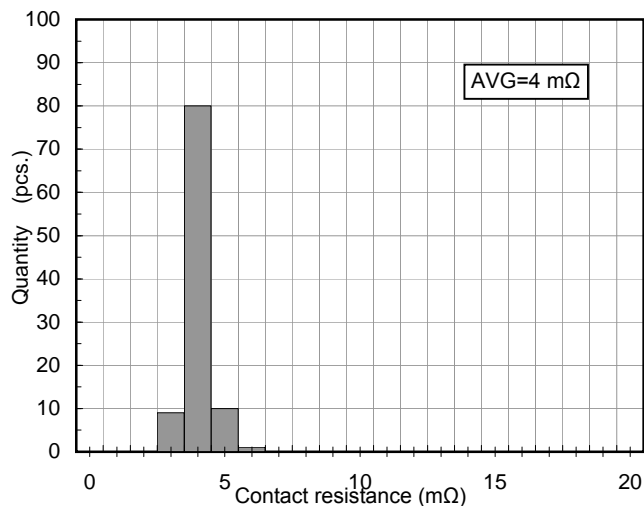
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TECHNICAL REFERENCE DATA FOR THE RTE1-160 RELAY

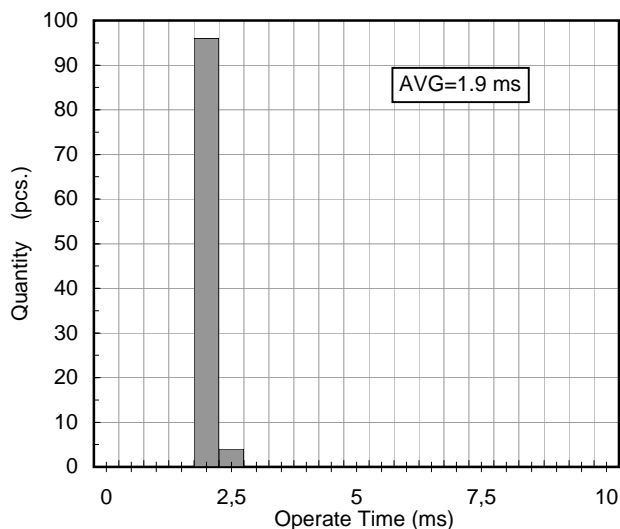
Contact Resistance of the N/O contact



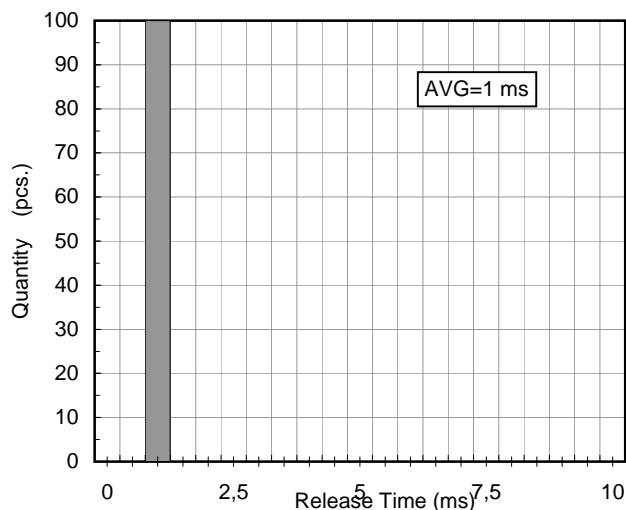
Contact Resistance of the N/C contact



Operate Time with 12 V

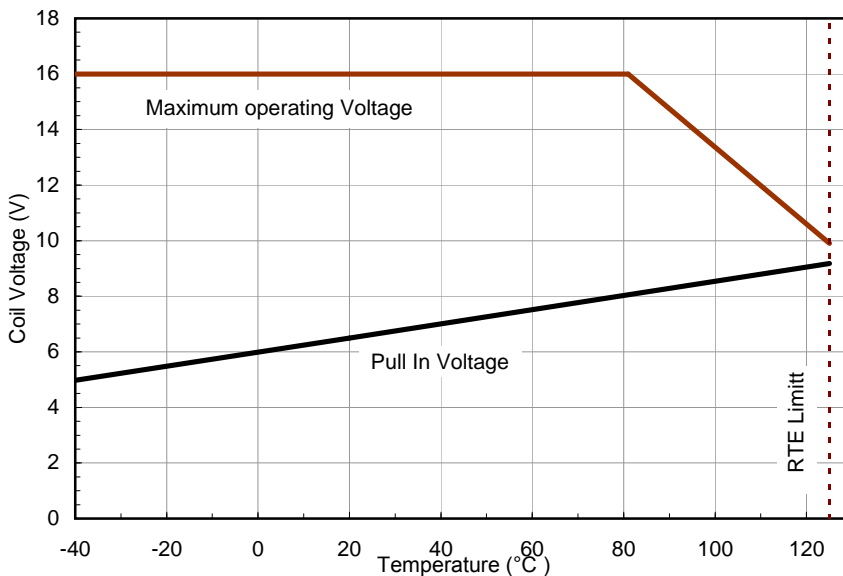


Release Time without diode



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.

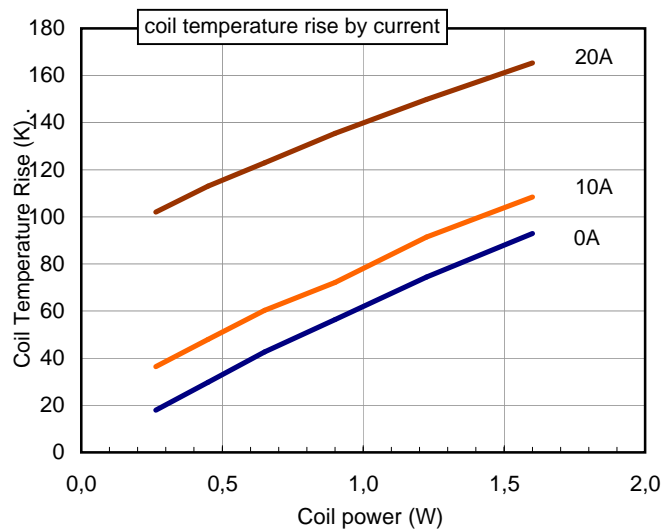
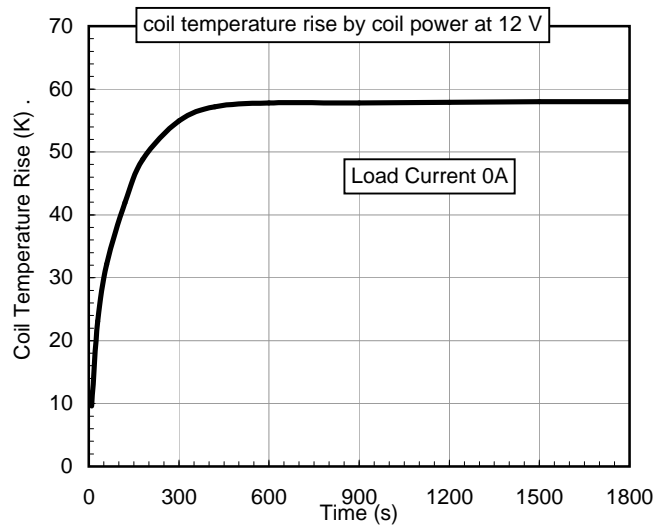


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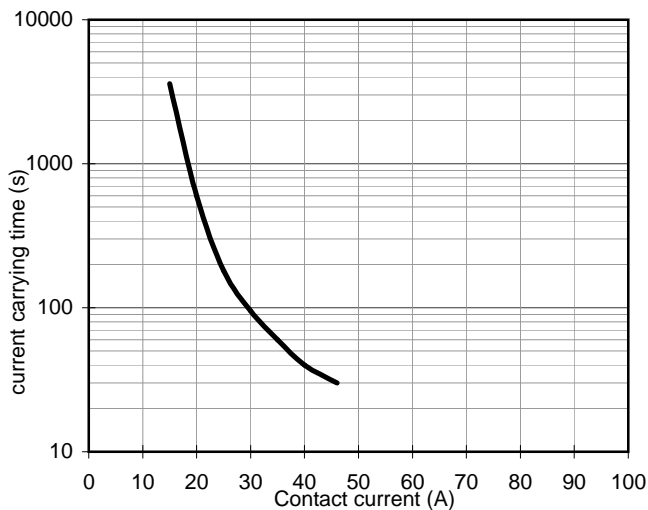
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TECHNICAL REFERENCE DATA FOR THE RTE1-160 RELAY

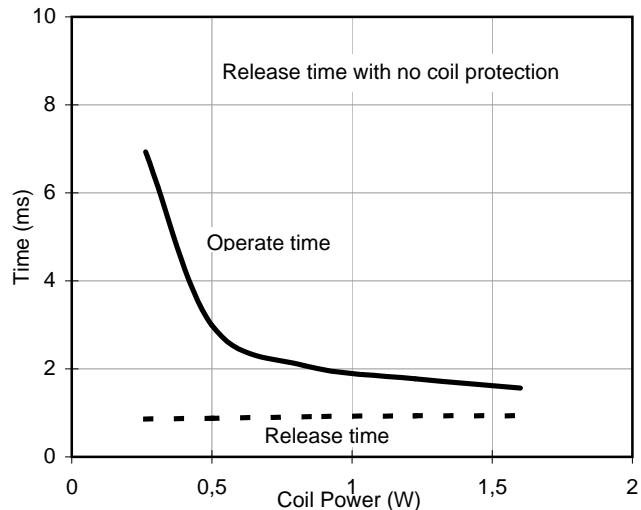
Coil temperature rise



Over current limit



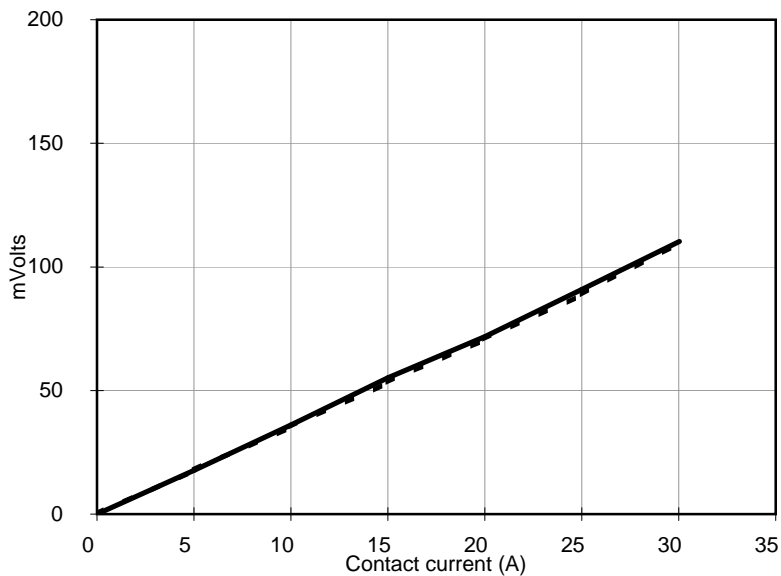
Operate and Release Time



Contact voltage drop over NO contact of the RTE1-160

- 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

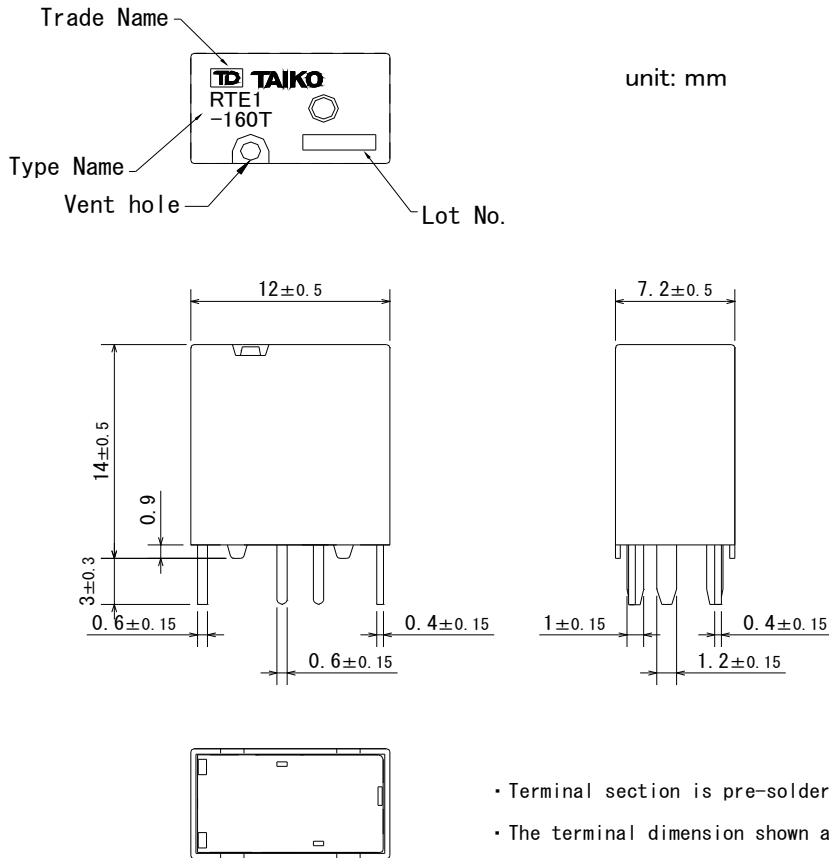


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External Dimensions / Wiring Diagram / PCB Pin Layout

Fig 1 . External Dimensions



- Terminal section is pre-soldered.
- The terminal dimension shown are after the pre-soldering
- Deviation of terminal pitch is ± 0.2 at the root of terminal

Fig.2. Wiring diagram (BOTTOM VIEW)

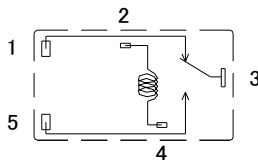
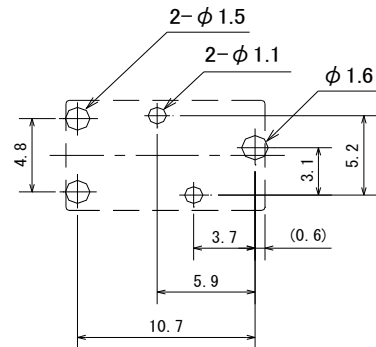


Fig.3. PCB pin layout (Reference figure) (BOTTOM VIEW)



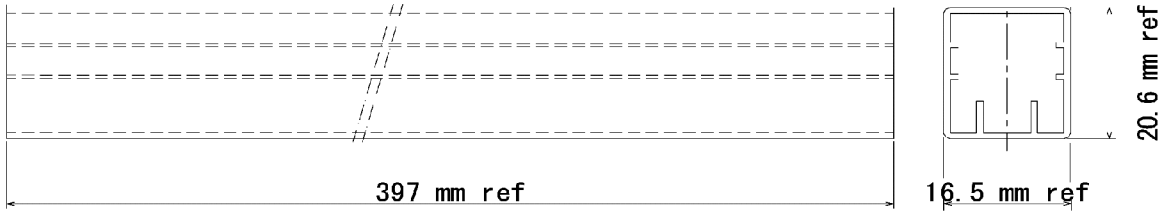
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Packaging specification

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.