

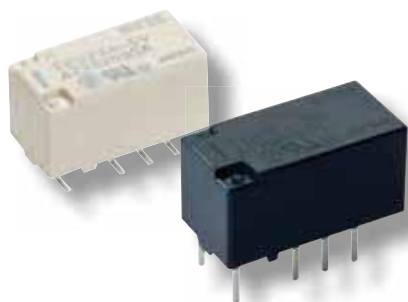
Panasonic

TX Relays

WITH A BROAD LINEUP



TX RELAY SERIES



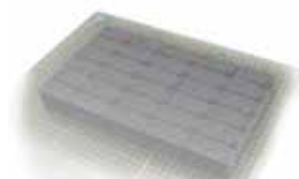
Technology of TX relay is being improved constantly so that we have a suitable type for any application.

- › High sensitive
- › High inrush current
- › 6kV breakdown voltage
- › Optimized for level load

TX-S

Features:

- › Nominal operating power of 50mW
- › Life (min. operation) 2×10^5 (1A 30V DC)



Advantage:

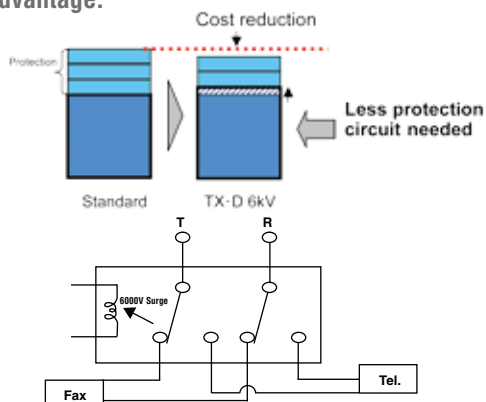
- › Suitable for battery powered applications
- › High packing density

TX-D 6KV

Features:

- › Surge breakdown voltage: 6000V
- › Breakdown voltage: 3000V_{rms} for 1min.
- › Clearance distance: 2mm
- › Creepage distance: 2,5mm
- › EN60950 Standard
- › Improved sealed & molding technology
- › Life (min. operation) 10^5 (2A 30V DC)

Advantage:



FEATURES

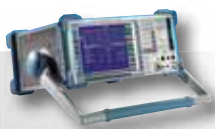
Product family	Difference to Standard TX
TX-S	High sensitive: nominal operating power 50mW
TX-D	Higher clearance and creepance distance between coil and contact: Surge breakdown voltage: 6kV instead of 2kV
TX-TH	High inrush current 7,5A for 10ms
TX-1	AgPd contacts, optimized for low level load

APPLICATION AREAS FOR PANASONIC TX RELAYS



Industrial automation

- › PLCs
- › Industrial computer



Measurement technology

- › Measuring transducers
- › Sensors
- › Measuring devices



TV and video devices

- › Digital cameras
- › Video cameras
- › MP3 players
- › Multimedia



Office equipment

- › Photocopy machines
- › Fax machines



Communications technology

- › Switching units
- › Router / Modem
- › Wireless/Ethernet



Safety equipment

- › Monitoring systems
- › Alarm systems
- › Smoke detectors



Medical technology

- › Ultrasound devices
- › X-rays
- › Cardiac mapping systems

TX-TH

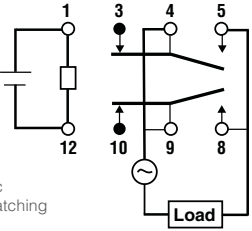
Features:

- Inrush current up to 7.5A for 10ms*
- Life (min. operation) 10^5 (2A 30V DC)

*(Precaution: When using at 7.5A, connection of NO (pin #5 and #8) and COM (pin #4 and #9) in the circuit is required.

Advantage:

- For capacitive loads and lamp loads



TX-1

Features:

- Optimized for low level load

Advantage:

- Constant contact resistance over the life time

Test:

Sample: TX2-4.5V / TX2-4.5V-1

Contact material: AgPd+Au clad (stationary), AgPd (movable)

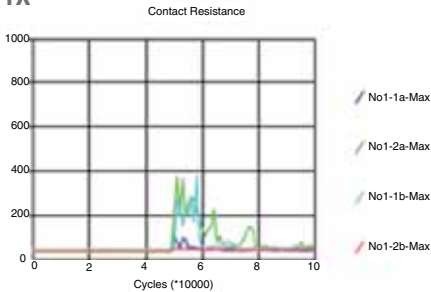
Measurement condition:

20mV 1mA (1kHz), delay time 200ms

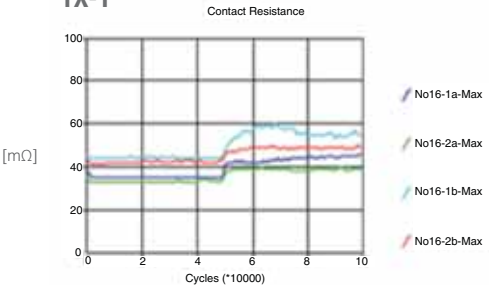
temperature increase from 20°C to 85°C after 50K cycles

[mΩ]

TX



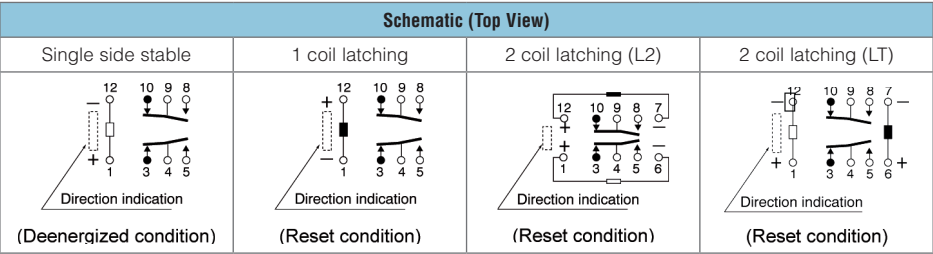
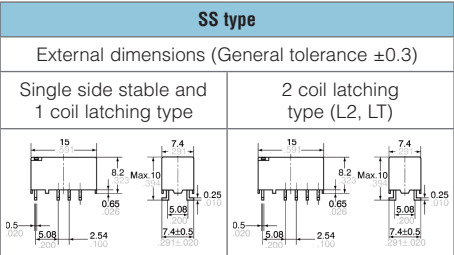
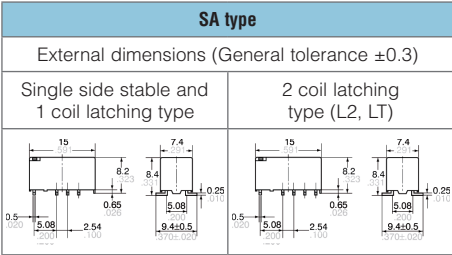
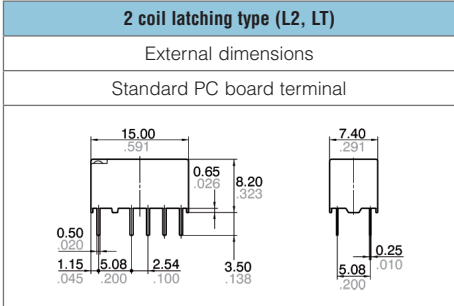
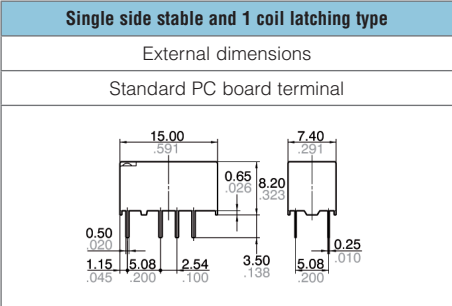
TX-1



[mΩ]

COMMON TX FEATURES

- Same housing, same pinning: THT, SMD SA and SMD SS type available
- Contact arrangement: 2c
- Twin crossbar contacts ensures high contact reliability
- Sealed construction allows automatic washing





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Panasonic Electric Works

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