⚠️Note  Please read rating and ⚠️CAUTION (for storage, operating, rating, soldering, mounting and handling) in this PDF catalog to prevent smoking and/or burning, etc.
This catalog has only typical specifications. Therefore, you are requested to approve our product specifications or to transact the approval sheet for product specifications before ordering.

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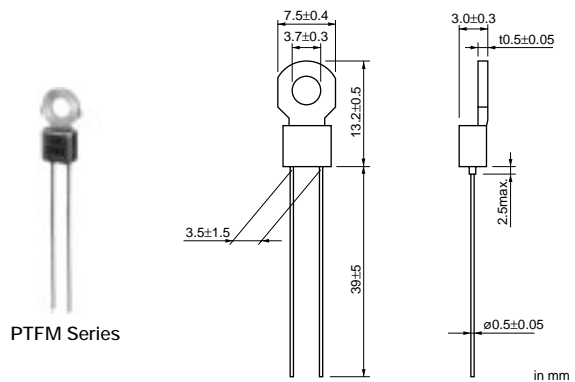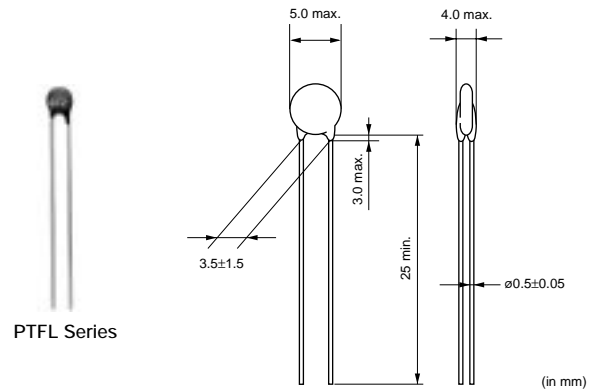# POSISTOR® for Circuit Protection

**muRata**

## for Overheat Sensing Lead Type

PTFM type has been developed for protecting power transistors, stereo main amplifiers, etc. from overheating, and also for sensing the temperature of other components which may be overheated.
The "POSISTOR" offers an excellent temperature sensing ability, exhibiting a steep change in electrical resistivity near the temperature setting. PTFL type is suitable for use as an air temperature sensor.

### ■ Features

1. PTFM type is a screw-fixing type and PTFL type is a lead type, therefore mounting is easy.
2. Compact and light design as well as excellent thermal response
3. Solid-state construction withstands mechanical vibration and impact sufficiently
4. Contactless operation provides a prolonged service life, yet permits noiseless operation.
5. The operating point of "POSISTOR" is set on the steepest point along the resistance-temperature characteristic curve, thus performing the overheat protective operation securely.
6. PTFM type and PTFL type have the same temperature characteristic, providing a selection depending on the mounting method.



PTFL Series



PTFM Series

| Part Number | Max. Voltage (V) | Curie Point (°C) | Sensing Temp. (TS) (°C) | Resistance Value (at 25°C) (max.) (ohm) | Resistance Value (at Sensing Temp. -10°C) (max.) (ohm) | Resistance Value (at Sensing Temp. TS°C) (min.) (ohm) |
|---|---|---|---|---|---|---|
| PTF□04BH471Q2N34B0 | 16 | 40 (BH) | 60 | 100 | 330 | 470 |
| PTF□04BG471Q2N34B0 | 16 | 50 (BG) | 70 | 100 | 330 | 470 |
| PTF□04BF471Q2N34B0 | 16 | 60 (BF) | 80 | 100 | 330 | 470 |
| PTF□04BE471Q2N34B0 | 16 | 70 (BE) | 90 | 100 | 330 | 470 |
| PTF□04BD471Q2N34B0 | 16 | 80 (BD) | 100 | 100 | 330 | 470 |
| PTF□04BC471Q2N34B0 | 16 | 90 (BC) | 110 | 100 | 330 | 470 |
| PTF□04BB471Q2N34B0 | 16 | 100 (BB) | 120 | 100 | 330 | 470 |
| PTF□04BH222Q2N34B0 | 16 | 40 (BH) | 60 | 330 | 1.5k | 2.2k |
| PTF□04BG222Q2N34B0 | 16 | 50 (BG) | 70 | 330 | 1.5k | 2.2k |
| PTF□04BF222Q2N34B0 | 16 | 60 (BF) | 80 | 330 | 1.5k | 2.2k |
| PTF□04BE222Q2N34B0 | 16 | 70 (BE) | 90 | 330 | 1.5k | 2.2k |
| PTF□04BD222Q2N34B0 | 16 | 80 (BD) | 100 | 330 | 1.5k | 2.2k |
| PTF□04BC222Q2N34B0 | 16 | 90 (BC) | 110 | 330 | 1.5k | 2.2k |
| PTF□04BB222Q2N34B0 | 16 | 100 (BB) | 120 | 330 | 1.5k | 2.2k |

A blank is filled with type codes. (L: Lead type, M: with Lug-terminal)

The order quantity should be an integral multiple of the "Minimum Quantity" shown in the "Package" page.

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