

# THERMISTOR PRODUCTS

## PTC THERMISTOR LEADED TYPE FOR TEMPERATURE SENSING

PTH9L/M Series

THERMISTOR  
PRODUCTS

### FEATURES

- PTH9L/M provides an excellent temperature sensing ability, exhibiting a steep change in electrical resistivity near the temperature setting
- PTH9M is suitable for power transistors, thyristors, amplifiers, etc. for overheat protection
- PTH9L is usable as a temperature sensor in air
- PTH9M is a panel-mount style
- Same temperature characteristics between PTH9L and PTH9M

### PART NUMBERING SYSTEM

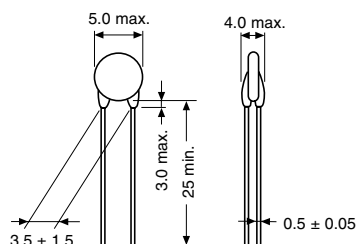
| PTH9M                                                         | 04           | BH                          | 471              | TS2F333                                                            |
|---------------------------------------------------------------|--------------|-----------------------------|------------------|--------------------------------------------------------------------|
| LEADED TEMPERATURE SENSING PTC<br>M: Panel Mount<br>L: Leaded | CONSTRUCTION | TEMPERATURE CHARACTERISTICS | RESISTANCE VALUE | OTHER SPECIFICATIONS<br>TS2F333: PTH9M-Std.<br>TS2F330: PTH9L-Std. |

### SPECIFICATIONS

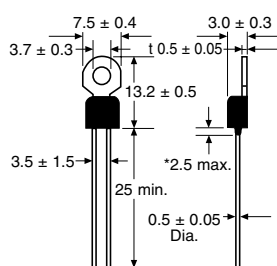
| Part Number         |                     | Temperature Characteristics (C.P.) | Resistance Value in Ohms |                               |                        | Voltage (VDC) max. | Current (A) max. |
|---------------------|---------------------|------------------------------------|--------------------------|-------------------------------|------------------------|--------------------|------------------|
| PTH9M               | PTH9L               |                                    | 25°C                     | At Sensing Temperature - 10°C | At Sensing Temperature |                    |                  |
| PTH9M04BH471TS2F333 | PTH9L04BH471TS2F330 | BH (40)                            | 100 max.                 | 330 max. (50°C)               | 470 min. (60°C)        | 16                 | 0.1              |
| PTH9M04BG471TS2F333 | PTH9L04BG471TS2F330 | BG (50)                            |                          | 330 max. (60°C)               | 470 min. (70°C)        |                    |                  |
| PTH9M04BF471TS2F333 | PTH9L04BF471TS2F330 | BF (60)                            |                          | 330 max. (70°C)               | 470 min. (80°C)        |                    |                  |
| PTH9M04BE471TS2F333 | PTH9L04BE471TS2F330 | BE (70)                            |                          | 330 max. (80°C)               | 470 min. (90°C)        |                    |                  |
| PTH9M04BD471TS2F333 | PTH9L04BD471TS2F330 | BD (80)                            |                          | 330 max. (90°C)               | 470 min. (100°C)       |                    |                  |
| PTH9M04BC471TS2F333 | PTH9L04BC471TS2F330 | BC (90)                            |                          | 330 max. (100°C)              | 470 min. (110°C)       |                    |                  |
| PTH9M04BB471TS2F333 | PTH9L04BB471TS2F330 | BB (100)                           | 330 max.                 | 330 max. (110°C)              | 470 min. (120°C)       | 16                 | 0.1              |
| PTH9M04BH222TS2F333 | PTH9L04BH222TS2F330 | BH (40)                            |                          | 1.5K max. (50°C)              | 2.2K min. (60°C)       |                    |                  |
| PTH9M04BG222TS2F333 | PTH9L04BG222TS2F330 | BG (50)                            |                          | 1.5K max. (60°C)              | 2.2K min. (70°C)       |                    |                  |
| PTH9M04BF222TS2F333 | PTH9L04BF222TS2F330 | BF (60)                            |                          | 1.5K max. (70°C)              | 2.2K min. (80°C)       |                    |                  |
| PTH9M04BE222TS2F333 | PTH9L04BE222TS2F330 | BE (70)                            |                          | 1.5K max. (80°C)              | 2.2K min. (90°C)       |                    |                  |
| PTH9M04BD222TS2F333 | PTH9L04BD222TS2F330 | BD (80)                            |                          | 1.5K max. (90°C)              | 2.2K min. (100°C)      |                    |                  |
| PTH9M04BC222TS2F333 | PTH9L04BC222TS2F330 | BC (90)                            |                          | 1.5K max. (100°C)             | 2.2K min. (110°C)      |                    |                  |
| PTH9M04BB222TS2F333 | PTH9L04BB222TS2F330 | BB (100)                           |                          | 1.5K max. (110°C)             | 2.2K min. (120°C)      |                    |                  |

### DIMENSIONS: mm

#### PTH9L



#### PTH9M



\* @ +60°C

### TYPICAL RESISTANCE-TEMPERATURE CHARACTERISTICS

