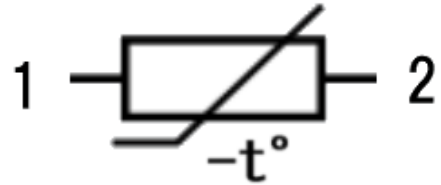


# LTspice Model

## NTC Thermistor

### Mitsubishi Materials

### TN10-3S472JT



### Model Information

|                                   |                         |                                     |  |
|-----------------------------------|-------------------------|-------------------------------------|--|
| <b>Model</b>                      | An original macro model |                                     |  |
| <b>Call Name</b>                  | MDC_TN10-3S472JT_LT     |                                     |  |
| <b>Pin Assign</b>                 | 1:1 2:2                 |                                     |  |
| <b>File List</b>                  | Model Library           | MDC_TN10-3S472JT_LT01.lib           |  |
|                                   | Model Report            | MDC_TN10-3S472JT_LT.pdf (this file) |  |
| <b>Verified Simulator Version</b> | LTspice version XVII    |                                     |  |
| <b>Note</b>                       |                         |                                     |  |

### References

The information which was used for modeling is as follow:

[Data Sheet]

|                  |                                  |
|------------------|----------------------------------|
| ●Date/Version    | Unknown                          |
| ●Product name    | TN10-3S472JT                     |
| ●Company name    | Mitsubishi Materials Corporation |
| ●Characteristics | ResTemp[If],ResTemp[If]2         |

### Simulation Range

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

| Item        | Range |    |      | Unit  |
|-------------|-------|----|------|-------|
|             | Min.  |    | Max. |       |
| Temperature | -40   | to | 150  | deg C |

**Thermistor**

○ : Implemented  
 × : Not Implemented  
 — : Not applicable

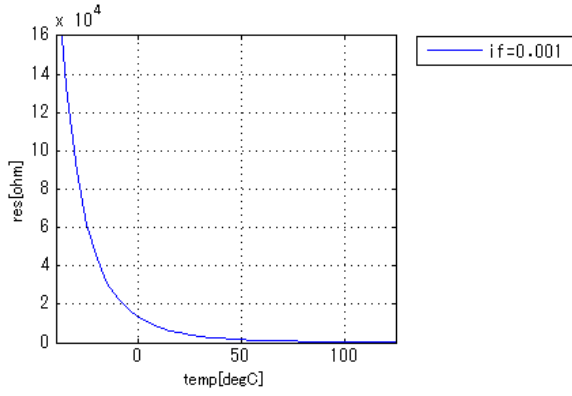
**Model Functions Table**

**RANK=1**

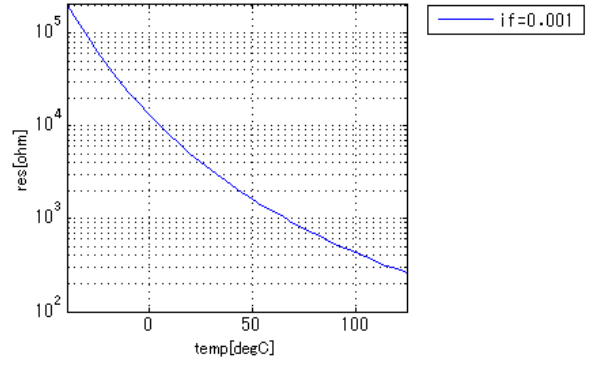
| Functions              | RANK | Implemented |
|------------------------|------|-------------|
| Resistance-Temperature | 1    | ○           |
| Current-Voltage        | 1    | —           |
| Thermal time constant  | 1    | —           |

Simulation results are following.  
 Explanatory notes — : simulated

**ResTemp[If]**



**ResTemp[If]2**



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