

## 【Annex】

## Thermal Resistance Values of the Nichia 193 Series LEDs



Part Number	Thermal Resistance $R_{\theta JMP}$ (°C/W)
NCSW193F	4.4
NC2W193F	2.4
NC3W193F	1.8
NC4W193F	1.5
NC5W193F	1.3

- The  $R_{\theta JMP}$  is the thermal resistance from the chip of the LED to the measurement point Nichia specifies (i.e. the  $T_{MP}$  measurement point).
- The estimated value of the junction temperature ( $T_J$ ) of the LED can be calculated by measuring the  $T_{MP}$  (i.e. the temperature of the  $T_{MP}$  measurement point) of the LED mounted on a PCB and using the  $R_{\theta JMP}$  value provided above. For details of how to calculate the  $T_J$ , refer to the application note: How to Calculate the Junction Temperature for the Nichia 193 Series LEDs.
- The  $R_{\theta JMP}$  values provided above should be used for reference purposes only.
- For the LEDs whose  $R_{\theta JMP}$  values are not provided above, contact a local Nichia sales representative.

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