



NTC THERMISTORS: TYPE NHQT

SURFACE MOUNT CHIP 0402 SIZE

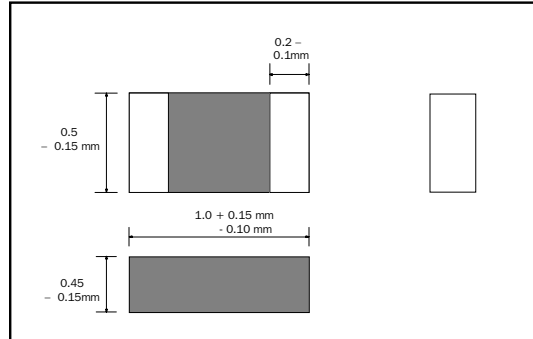
DESCRIPTION:

A range of 0402 size surface mount NTC chip thermistors.

FEATURES:

- Palladium silver electrodes with nickel barrier and solder plating
- Intended for temperature measurement, control and compensation
- Excellent solderability without 'tombstoning'
- Suitable for standard soldering techniques
- Glass-coated ceramic between electrodes for improved stability

DIMENSIONS:



DATA:

Soldering Recommendations:

Maximum storage time in closed package....1 year
 Maximum storage time exposed to ambient conditions of 15°C - 30°C, 15% - 70% RH ...30 days
 Drying prior to soldering: not to exceed 48h at 80°C or 16h at 100°C or 8h at 125°C
 Flux type R or RMA

Flow soldering conditions:

Preheat temperature 80° - 150°C
 Max rate of change of temperature 2.5°C/s
 Max solder temperature 265°C
 Max dwell time 10s
 Cooling in ambient or air flow of 5m/s

Reflow soldering conditions:

Method infrared, hot gas, vapor
 Max rate of change preheat temperature . 2.5°C/s
 Max Temp 225°C
 Max time above 200°C 30s
 Max radiant flux (0. 1 to 100W μ) 5W/cm²
 Max hot air temperature 275°C at 4 m/s
 Max vapor temperature 215°C
 Max rate of cooling..... 2.5°C/s

Cleaning:

Ultrasonic cleaning in methanol or isopropanol not exceeding 40 kHz for 5 minutes or aqueous cleaning not exceeding 70°C for 7 minutes, is recommended.

| Code | R25 Ω | B 25/85 K |
|---------------|--------|-----------|
| NHQT400B285R5 | 40 | 2850 |
| NHQT500B285R5 | 50 | 2850 |
| NHQT600B285R5 | 60 | 2850 |
| NHQT101B285R5 | 100 | 2850 |
| NHQT151B285R5 | 150 | 2850 |
| NHQT102B330R5 | 1000 | 3300 |
| NHQT202B410R5 | 2000 | 4100 |
| NHQT252B410R5 | 2500 | 4100 |
| NHQT302B410R5 | 3000 | 4100 |
| NHQT332B410R5 | 3300 | 4100 |
| NHQT352B410R5 | 3500 | 4100 |
| NHQT402B410R5 | 4000 | 4100 |
| NHQT652B410R5 | 6500 | 4100 |
| NHQT153B380R5 | 15000 | 3800 |
| NHQT203B380R5 | 20000 | 3800 |
| NHQT223B380R5 | 22000 | 3800 |
| NHQT303B400R5 | 30000 | 4000 |
| NHQT473B400R5 | 47000 | 4000 |
| NHQT683B400R5 | 68000 | 4000 |
| NHQT104B425R5 | 100000 | 4250 |
| NHQT154B425R5 | 150000 | 4250 |
| NHQT204B425R5 | 200000 | 4250 |

Resistance tolerance at 25°C ± 5%
 (for± 10% replace R5 by R10 in code)
 Tolerance on B value ±200 K
 Minimum temperature -40°C
 Maximum temperature 125°C
 Dissipation factor 1.5mW/K
 Time constant 4s max

D-NHQT-1

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