



NTC THERMISTORS: TYPE NHQ

SURFACE MOUNT CHIP 1206 SIZE

DESCRIPTION:

A range of 1206 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
- Supplied in tape-and-reel packaging

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:

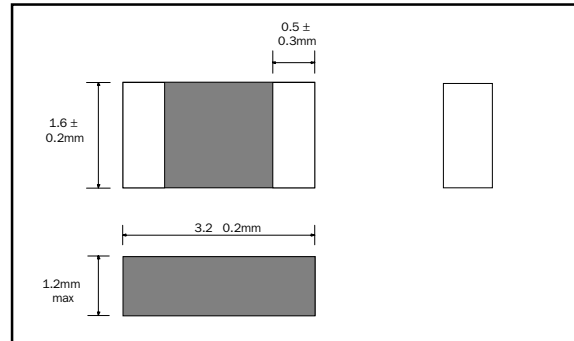
Method infrared, hot gas, vapor
 Max rate of change preheat temperature . 2.5°C/s
 Max Temp 225°C
 Max time above 200°C 30s
 Max radiant flux (0. 1 to 100W μ) 5W/cm²
 Max hot air temperature 275°C at 4 m/s

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

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 3mW/K
 Time constant 8s max

DIMENSIONS:



Code	R25 Ω	B 25/85 K
NHQ101B280R5	100	2800
NHQ501B325R5	500	3250
NHQ801B325R5	800	3250
NHQ102B325R5	1000	3250
NHQ152B345R5	1500	3450
NHQ202B410R5	2000	4100
NHQ222B410R5	2200	4100
NHQ252B410R5	2500	4100
NHQB410272R5	2700	4100
NHQ302B410R5	3000	4100
NHQ472B355R5	4700	3550
NHQ502B355R5	5000	3550
NHQ103B375R5	10000	3750
NHQ153B400R5	15000	4000
NHQ203B400R5	20000	4000
NHQ223B400R5	22000	4000
NHQ303B400R5	30000	4000
NHQ333B400R5	33000	4000
NHQ473B400R5	47000	4000
NHQ503B400R5	50000	4000
NHQ104B425R5	100000	4250
NHQ154B425R5	150000	4250
NHQ304B435R5	300000	4350
NHQ474B435R5	470000	4350
NHQ504B435R5	500000	4350

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