



NTC THERMISTORS: TYPE NHQM

SURFACE MOUNT CHIP 0805 SIZE

DESCRIPTION:

A range of 0805 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

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:

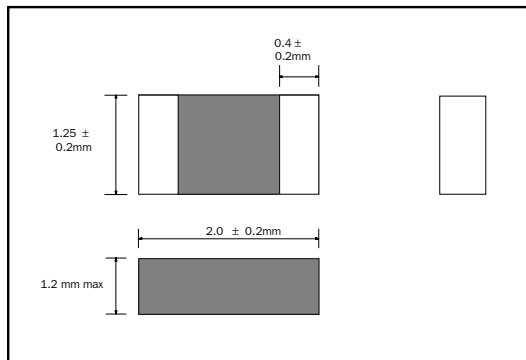
Method infrared, hot gas, vapor
 Max rate of change preheat temperature . 2.5°C/s
 Max Temp 225°C
 Max time above 200°C 30s
 Max radiant flux (0. 1 to 100W μ) 5W/cm²
 Max hot air temperature 275°C at 4 m/s
 Max vapor temperature 215°C
 Max rate of cooling..... 2.5°C/s

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.

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 5s max

DIMENSIONS:



Code	R25 Ω	B 25/85 K
NHQM400B280R5	40	2800
NHQM800B280R5	80	2800
NHQM101B280R5	100	2800
NHQM221B310R5	220	3100
NHQM471B325R5	470	3250
NHQM501B325R5	500	3250
NHQM801B325R5	800	3250
NHQM102B325R5	1000	3250
NHQM152B345R5	1500	3450
NHQM202B410R5	2000	4100
NHQM252B410R5	2500	4100
NHQM272B410R5	2700	4100
NHQM302B410R5	3000	4100
NHQM472B355R5	4700	3550
NHQM502B355R5	5000	3550
NHQM682B375R5	6800	3750
NHQM103B375R5	10000	3750
NHQM153B400R5	15000	4000
NHQM20B4003R5	20000	4000
NHQM223B400R5	22000	4000
NHQM273B400R5	27000	4000
NHQM303B400R5	30000	4000
NHQM333B400R5	33000	4000
NHQM473B415R5	47000	4150
NHQM503B415R5	50000	4150
NHQM104B425R5	100000	4250
NHQM154B425R5	150000	4250
NHQM304B425R5	300000	4250
NHQM474B435R5	470000	4350
NHQM504B435R5	500000	4350

Data sheet D-NHQM-4

Crown Industrial Estate, Priorswood Rd
 Taunton, Somerset TA2 8QY UK
 Tel +44 (0)1823 335200
 Fax +44 (0)1823 332637

808 US Highway 1
 Edison, New Jersey 08817-4695 USA
 Tel +1 (732) 287 2870
 Fax +1 (732) 287 8847

967 Windfall Road
 St Marys, Pennsylvania 15857-3397 USA
 Tel +1 (814) 834 9140
 Fax +1 (814) 781 7969