NTC Thermistors



for Temperature Compensation 0603 (1608) Size

0201/0402/0603/0805 sized Chip NTC Thermistors have Ni barrier termination and provide excellent solderability and offer high stability in environment by unique inner construction.

■ Features

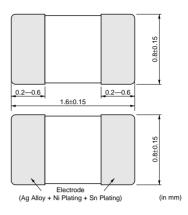
- Excellent solderability and high stability in environment
- 2. Excellent long time aging stability
- 3. High accuracy in resistance and B-constant
- 4. Flow/Reflow soldering possible
- Same B-constant in the same resistance in the three sizes (0805 size/0603 size/0402 size)
 Easy to use smaller size in the circuits
- 6. Lead is not contained in the product.
- 7. NCP15, 18, 21 series are recognized by UL (UL1434, File No.E137188 Vol.2, Sec.2).

Applications

- 1. Temperature compensation of transistor, IC, crystal oscillator of mobile communications equipments
- 2. Temperature sensor for rechargeable batteries
- 3. Temperature compensation of LCD
- 4. Temperature compensation and sensing of car audio equipments (CD, MD, Tuner)
- Temperature compensation of several kinds of circuits





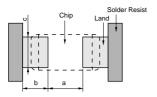


Part Number	Resistance (25°C)	B-Constant (25-50°C) (K)	Permissive Operating Current (25°C) (mA)	Rated Electric Power (25°C) (mW)	Typical Dissipation Constant (25°C) (mW/°C)	Operating Temperature Range (°C)
NCP18XF101□03RB	100ohm	3250 ±3%	3.10	100	1.0	-40 to 125
NCP18XF151□03RB	150ohm	3250 ±3%	2.50	100	1.0	-40 to 125
NCP18XM221□03RB	220ohm	3500 ±3%	2.10	100	1.0	-40 to 125
NCP18XM331□03RB	330ohm	3500 ±3%	1.70	100	1.0	-40 to 125
NCP18XQ471□03RB	470ohm	3650 ±3%	1.40	100	1.0	-40 to 125
NCP18XQ681□03RB	680ohm	3650 ±3%	1.20	100	1.0	-40 to 125
NCP18XQ102□03RB	1.0k ohm	3650 ±3%	1.00	100	1.0	-40 to 125
NCP18XW152□03RB	1.5k ohm	3950 ±3%	0.81	100	1.0	-40 to 125
NCP18XW222□03RB	2.2k ohm	3950 ±3%	0.67	100	1.0	-40 to 125
NCP18XW332□03RB	3.3k ohm	3950 ±3%	0.55	100	1.0	-40 to 125
NCP18XM472□03RB	4.7k ohm	3500 ±3%	0.46	100	1.0	-40 to 125
NCP18XW682□03RB	6.8k ohm	3950 ±3%	0.38	100	1.0	-40 to 125
NCP18XH103□03RB	10k ohm	3380 ±3%	0.31	100	1.0	-40 to 125
NCP18XW153□03RB	15k ohm	3950 ±3%	0.25	100	1.0	-40 to 125
NCP18XW223□03RB	22k ohm	3950 ±3%	0.21	100	1.0	-40 to 125
NCP18WB333□03RB	33k ohm	4050 ±3%	0.17	100	1.0	-40 to 125
NCP18WB473□03RB	47k ohm	4050 ±3%	0.14	100	1.0	-40 to 125
NCP18WD683□03RB	68k ohm	4150 ±3%	0.12	100	1.0	-40 to 125
NCP18WF104□03RB	100k ohm	4250 ±3%	0.10	100	1.0	-40 to 125
NCP18WM154□03RB	150k ohm	4500 ±3%	0.08	100	1.0	-40 to 125
NCP18WM224□03RB	220k ohm	4500 ±3%	0.06	100	1.0	-40 to 125
NCP18WM474□03RB	470k ohm	4500 ±3%	0.04	100	1.0	-40 to 125

Both flow and reflow soldering methods can be employed. A blank column is filled with resistance tolerance codes. (J: $\pm 5\%$, K: $\pm 10\%$) Tolerance $\pm 1\%$ NCP18XH103F03RB is also available for 10k ohm type.



■ Standard Land Dimensions



Soldering Methods	а	b	С
Flow Soldering	0.6~1.0	0.8~0.9	0.6~0.8
Reflow Soldering	0.6~0.8	0.6~0.7	0.6~0.8

(in mm)