

# NB12, Surface Mount Thermistors

NC 12 – NC 20



Chip thermistors are a high quality and low cost device especially developed for surface mounting applications. They are widely used for temperature compensation but can also achieve temperature control of printed circuits. Its silver - palladium - platinum metallization provides a high degree of resistance to dewetting of the terminations during soldering (typically 260°C / 30 s).

## HOW TO ORDER

**NC 20**

Type

**K 0**

Material Code  
K

**0103**

Resistance  
10,000 Ω

**M**

Tolerance  
M (±20%)  
J (±5%)  
K (±10%)

**BA**

Suffix: Packaging  
--: Bulk  
BA: Plastic tape  
(180mm diam. reel)  
BE: Plastic tape (1/2 reel)  
BC: Plastic tape  
(330mm diam. reel)  
BB: Cardboard tape  
(180mm diam. reel)  
BF: Cardboard tape (1/2 reel)  
BD: Cardboard tape  
(330mm diam. reel)

## TABLE OF VALUES (Min/Max)

NC 12 IEC SIZE : 0805				
Types	Rn at 25°C (Ω)	Material Code	B (K) ( $\frac{\Delta B}{B}$ (1) ± 5% (2) ± 3%)	α at 25°C (%/°C)
NC 12 KC 0 180	18	KC	3470 ± 5%	- 3.9
NC 12 KC 0 101	100			
NC 12 MC 0 121	120	MC	3910 ± 3%	- 4.4
NC 12 MC 0 332	3,300			
NC 12 J 0 0332	3,300	J	3480 ± 3%	- 3.9
NC 12 J 0 0562	5,600			
NC 12 K 0 0682	6,800	K	3630 ± 3%	- 4.0
NC 12 K 0 0123	12,000			
NC 12 L 0 0153	15,000	L	3790 ± 3%	- 4.2
NC 12 L 0 0183	18,000			
NC 12 M 0 0223	22,000	M	3950 ± 3%	- 4.4
NC 12 M 0 0393	39,000			
NC 12 N 0 0473	47,000	N	4080 ± 3%	- 4.6
NC 12 N 0 0563	56,000			
NC 12 L 2 0683	68,000	L2	3805 ± 3%	- 4.1
NC 12 N 0 0823	82,000	N	4080 ± 3%	- 4.6
NC 12 P 0 0104	100,000	P	4220 ± 3%	- 4.7
NC 12 P 0 0184	180,000			
NC 12 Q 0 0224	220,000	Q	4300 ± 3%	- 4.7

NC 20 IEC SIZE : 1206				
Types	Rn at 25°C (Ω)	Material Code	B (K) ( $\frac{\Delta B}{B}$ (1) ± 5% (2) ± 3%)	α at 25°C (%/°C)
NC 20 KC 0 100	10	KC	3470 ± 5%	- 3.9
NC 20 KC 0 101	100			
NC 20 MC 0 121	120	MC	3910 ± 3%	- 4.4
NC 20 MC 0 152	1,500			
NC 20 I 0 0182	1,800	I	3250 ± 5%	- 3.7
NC 20 I 0 0332	3,300			
NC 20 J 0 0392	3,900	J	3480 ± 3%	- 3.9
NC 20 J 0 0682	6,800			
NC 20 K 0 0822	8,200	K	3630 ± 3%	- 4.0
NC 20 K 0 0153	15,000			
NC 20 L 0 0183	18,000	L	3790 ± 3%	- 4.2
NC 20 L 0 0223	22,000			
NC 20 M 0 0273	27,000	M	3950 ± 3%	- 4.4
NC 20 M 0 0473	47,000			
NC 20 N 0 0563	56,000	N	4080 ± 3%	- 4.6
NC 20 N 0 0104	100,000			
NC 20 P 0 0124	120,000	P	4220 ± 3%	- 4.7
NC 20 P 0 0224	220,000			
NC 20 Q 0 0274	270,000	Q	4300 ± 3%	- 4.7
NC 20 Q 0 0474	470,000			
NC 20 R 0 0564	560,000	R	4400 ± 3%	- 4.8
NC 20 R 0 0105	1,000,000			