



SMD NTC Thermistors



Size Code	Dimensions - mm		
	A	B	C
0201	0.6	0.3	0.15
0402	1.0	0.5	0.25
0603	1.6	0.8	0.6
0805	2.0	1.25	0.7

Features: • Excellent solderability and high stability in environment • Long time aging stability • High accuracy in resistance and B-constant • Reflow soldering possible • Lead is not contained in the product • Operating Temperature Range -40°C ~ 125°C • Free Thermistor design tool - "Output Voltage Simulator" is available at <http://murata.com/designlib/index.html>

Resistance 25°C Ω	B-Constant 25-50°C (k) ±3%	Tolerance 25°C (%)	Max. Operating Current 25°C (mA)	Rated Electric Power 25°C (mW)	Typical Dissipation Constant 25°C (mW/°C)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							1	10	100		Qty.	Pricing	
0201 Series													
11	2750	±5	9.50	100	1	490-4637-1-ND	.19	1.71	13.36	490-4637-2-ND	15,000	69.58/M	NCP03YS110J05RL
22	2750	±5	6.70	100	1	490-4638-1-ND	.19	1.71	13.36	490-4638-2-ND	15,000	69.58/M	NCP03YS220J05RL
33	2750	±5	5.50	100	1	490-4639-1-ND	.19	1.71	13.36	490-4639-2-ND	15,000	69.58/M	NCP03YS330J05RL
47	2750	±5	4.60	100	1	490-4640-1-ND	.19	1.71	13.36	490-4640-2-ND	15,000	69.58/M	NCP03YS470J05RL
68	2750	±5	3.80	100	1	490-4641-1-ND	.19	1.71	13.36	490-4641-2-ND	15,000	69.58/M	NCP03YS680J05RL
100	2750	±5	3.10	100	1	490-4642-1-ND	.19	1.71	13.36	490-4642-2-ND	15,000	69.58/M	NCP03YS101J05RL
6.8k	3380	±5	0.38	100	1	490-4643-1-ND	.19	1.71	13.36	490-4643-2-ND	15,000	69.58/M	NCP03XH682J05RL
10k	3380	±5	0.31	100	1	490-4644-1-ND	.19	1.66	13.03	490-4644-2-ND	15,000	67.33/M	NCP03XH103J05RL
15k	3380	±5	0.25	100	1	490-4645-1-ND	.19	1.71	13.36	490-4645-2-ND	15,000	69.58/M	NCP03XH153J05RL
22k	3380	±5	0.21	100	1	490-4646-1-ND	.19	1.71	13.36	490-4646-2-ND	15,000	69.58/M	NCP03XH223J05RL
33k	4250	±5	0.17	100	1	490-4647-1-ND	.19	1.71	13.36	490-4647-2-ND	15,000	69.58/M	NCP03WF333J05RL
47k	4050	±5	0.14	100	1	490-4648-1-ND	.19	1.71	13.36	490-4648-2-ND	15,000	69.58/M	NCP03WB473J05RL
68k	4250	±5	0.12	100	1	490-4649-1-ND	.19	1.71	13.36	490-4649-2-ND	15,000	69.58/M	NCP03WF683J05RL
100k	4250	±5	0.10	100	1	490-4650-1-ND	.19	1.66	13.03	490-4650-2-ND	15,000	67.33/M	NCP03WF104J05RL
0402 Series													
22	3100	±5	6.70	100	1	490-2408-1-ND	.12	1.08	8.48	490-2408-2-ND	10,000	43.98/M	NCP15XC220J03RC
33	3100	±5	5.50	100	1	490-2409-1-ND	.17	1.45	11.39	490-2409-2-ND	10,000	43.98/M	NCP15XC330J03RC
47	3100	±5	4.60	100	1	490-2410-1-ND	.17	1.45	11.39	—	—	—	NCP15XC470J03RC
68	3100	±5	3.80	100	1	490-2411-1-ND	.17	1.45	11.39	—	—	—	NCP15XC680J03RC
150	3250	±5	2.50	100	1	490-2413-1-ND	.12	1.08	8.48	490-2413-2-ND	10,000	43.98/M	NCP15XF151J03RC
220	3500	±5	2.10	100	1	490-2415-1-ND	.12	1.08	8.48	490-2415-2-ND	10,000	43.98/M	NCP15XM221J03RC
1.5k	3950	±5	0.81	100	1	490-2421-1-ND	.12	1.08	8.48	490-2421-2-ND	10,000	43.98/M	NCP15XW152J03RC
2.2k	3950	±5	0.67	100	1	490-2423-1-ND	.12	1.08	8.48	490-2423-2-ND	10,000	43.98/M	NCP15XW222J03RC
4.7k	3500	±5	0.46	100	1	490-2417-1-ND	.10	.84	6.58	490-2417-2-ND	10,000	33.67/M	NCP15XM472J03RC
6.8k	3950	±5	0.38	100	1	490-2426-1-ND	.17	1.45	11.39	—	—	—	NCP15XW682J03RC
10k	3380	±1	—	100	1	490-4801-1-ND	.11	1.00	7.87	490-4801-2-ND	10,000	40.40/M	NCP15XH103F03RC
10k	3380	±5	0.31	100	1	490-2414-1-ND	.10	.84	6.58	490-2414-2-ND	10,000	33.67/M	NCP15XH103J03RC
15k	3950	±5	0.25	100	1	490-2422-1-ND	.12	1.08	8.48	490-2422-2-ND	10,000	43.98/M	NCP15XW153J03RC
22k	3950	±5	0.21	100	1	490-2424-1-ND	.12	1.08	8.48	490-2424-2-ND	10,000	43.98/M	NCP15XW223J03RC
33k	4050	±5	0.17	100	1	490-2401-1-ND	.17	1.45	11.39	—	—	—	NCP15WB333J03RC
47k	4050	±1	—	100	1	490-4802-1-ND	.11	1.00	7.87	490-4802-2-ND	10,000	40.40/M	NCP15WB473F03RC
47k	4050	±5	0.14	100	1	490-2402-1-ND	.10	.84	6.58	490-2402-2-ND	10,000	33.67/M	NCP15WB473J03RC
68k	4150	±5	0.12	100	1	490-2403-1-ND	.12	1.08	8.48	490-2403-2-ND	10,000	43.98/M	NCP15WD683J03RC
100k	4250	±5	0.10	100	1	490-4803-1-ND	.11	1.00	7.87	490-4803-2-ND	10,000	40.40/M	NCP15WF104F03RC
100k	4250	±5	0.10	100	1	490-2404-1-ND	.10	.84	6.58	490-2404-2-ND	10,000	33.67/M	NCP15WF104J03RC
150k	4500	±5	0.08	100	1	490-2405-1-ND	.12	1.08	8.48	490-2405-2-ND	10,000	43.98/M	NCP15WM154J03RC
220k	4500	±5	0.06	100	1	490-2406-1-ND	.12	1.08	8.48	490-2406-2-ND	10,000	43.98/M	NCP15WM224J03RC
470k	4500	±5	0.04	100	1	490-2407-1-ND	.12	1.08	8.48	490-2407-2-ND	10,000	43.98/M	NCP15WM474J03RC
0603 Series													
100	3250	±5	3.10	100	1	490-2434-1-ND	.19	1.65	12.93	—	—	—	NCP18XF101J03RB
150	3250	±5	2.50	100	1	490-2435-1-ND	.19	1.65	12.93	490-2435-2-ND	4,000	70.53/M	NCP18XF151J03RB
220	3500	±5	2.10	100	1	490-2437-1-ND	.19	1.65	12.93	490-2437-2-ND	4,000	70.53/M	NCP18XM221J03RB
330	3500	±5	1.70	100	1	490-2438-1-ND	.19	1.65	12.93	490-2438-2-ND	4,000	70.53/M	NCP18XM331J03RB
470	3650	±5	1.40	100	1	490-2441-1-ND	.19	1.65	12.93	490-2441-2-ND	4,000	70.53/M	NCP18XQ471J03RB
1.0k	3650	±5	1.00	100	1	490-2440-1-ND	.19	1.65	12.93	490-2440-2-ND	4,000	70.53/M	NCP18XQ102J03RB
1.5k	3950	±5	0.81	100	1	490-2443-1-ND	.19	1.65	12.93	490-2443-2-ND	4,000	70.53/M	NCP18XW152J03RB
2.2k	3950	±5	0.67	100	1	490-2445-1-ND	.19	1.65	12.93	490-2445-2-ND	4,000	70.53/M	NCP18XW222J03RB
3.3k	3950	±5	0.55	100	1	490-2447-1-ND	.19	1.65	12.93	490-2447-2-ND	4,000	70.53/M	NCP18XW332J03RB
4.7k	3500	±5	0.46	100	1	490-2439-1-ND	.17	1.47	11.57	490-2439-2-ND	4,000	62.84/M	NCP18XM472J03RB
6.8k	3950	±5	0.38	100	1	490-2448-1-ND	.19	1.65	12.93	490-2448-2-ND	4,000	70.53/M	NCP18XW682J03RB
10k	3380	±1	—	100	1	490-4800-1-ND	.19	1.69	13.33	490-4800-2-ND	4,000	72.94/M	NCP18XH103F03RC
10k	3380	±5	0.31	100	1	490-2436-1-ND	.17	1.47	11.57	490-2436-2-ND	4,000	62.84/M	NCP18XH103J03RB
15k	3950	±5	0.25	100	1	490-2444-1-ND	.19	1.65	12.93	490-2444-2-ND	4,000	70.53/M	NCP18XW153J03RB
22k	3950	±5	0.21	100	1	490-2446-1-ND	.19	1.65	12.93	490-2446-2-ND	4,000	70.53/M	NCP18XW223J03RB
33k	4050	±5	0.17	100	1	490-2427-1-ND	.19	1.65	12.93	490-2427-2-ND	4,000	70.53/M	NCP18WB333J03RB
47k	4050	±5	0.14	100	1	490-2428-1-ND	.17	1.47	11.57	490-2428-2-ND	4,000	62.84/M	NCP18WB473J03RB
68k	4150	±5	0.12	100	1	490-2429-1-ND	.19	1.65	12.93	490-2429-2-ND	4,000	70.53/M	NCP18WD683J03RB
100k	4250	±5	0.10	100	1	490-2430-1-ND	.17	1.47	11.57	490-2430-2-ND	4,000	62.84/M	NCP18WF104J03RB
220k	4500	±5	0.06	100	1	490-2432-1-ND	.19	1.65	12.93	490-2432-2-ND	4,000	70.53/M	NCP18WM224J03RB
470k	4500	±5	0.04	100	1	490-2433-1-ND	.19	1.65	12.93	490-2433-2-ND	4,000	70.53/M	NCP18WM474J03RB
0805 Series													
220	3500	±5	3.00	200	2	490-2452-1-ND	.24	2.06	16.26	490-2452-2-ND	4,000	88.65/M	NCP21XM221J03RA
470	3650	±5	2.00	200	2	490-2455-1-ND	.24	2.06	16.26	490-2455-2-ND	4,000	88.65/M	NCP21XQ471J03RA
1.0k	3650	±5	1.40	200	2	490-2454-1-ND	.24	2.06	16.26	490-2454-2-ND	4,000	88.65/M	NCP21XQ102J03RA
2.2k	3950	±5	0.90	200	2	490-2458-1-ND	.24	2.06	16.26	490-2458-2-ND	4,000	88.65/M	NCP21XW222J03RA
4.7k	3500	±5	0.65	200	2	490-2453-1-ND	.24	2.06	16.26	490-2453-2-ND	4,000	88.65/M	NCP21XM472J03RA
10k	3900	±5	0.44	200	2	490-2456-1-ND	.24	2.06	16.26	490-2456-2-ND	4,000	88.65/M	NCP21XV103J03RA
15k	3950	±5	0.36	200	2	490-2457-1-ND	.24	2.06	16.26	490-2457-2-ND	4,000	88.65/M	NCP21XW153J03RA
22k	3950	±5	0.30	200	2	490-2459-1-ND	.24	2.06	16.26	490-2459-2-ND	4,000	88.65/M	NCP21XW223J03RA
33k	4050	±5	0.24	200	2	490-2449-1-ND	.24	2.06	16.26	490-2449-2-ND	4,000	88.65/M	NCP21WB333J03RA
47k	4050	±5	0.20	200	2	490-2450-1-ND	.24	2.06	16.26	490-2450-2-ND	4,000	88.65/M	NCP21WB473J03RA
100k	4250	±5	0.14	200	2	490-2451-1-ND	.24	2.06	16.26	490-2451-2-ND	4,000</		