

Chip NTC Thermistors Selection Guide



Commercial Grade

Type	Dimensions-code JIS[EIA]	Use circuit example	Temperature compensation for various types of circuits			PA, PMIC	BMS	LCD	LED
			1kΩ	22kΩ	68kΩ	10kΩ	10kΩ	47kΩ	100kΩ
		Resistance (R25)	1kΩ	22kΩ	68kΩ	10kΩ	10kΩ	47kΩ	100kΩ
		B constant (B25/85)	4100K to 4500K	3435K to 4550K	4000K to 4550K	4100K to 4750K	3435K to 4550K	4000K to 4750K	4000K to 4550K
General	0402 [01005]		N/A	N/A	N/A	N/A	NTCG043JF103FTB	N/A	NTCG044EF104FTBX
	0603 [0201]		N/A	NTCG063JF223HTBX	NTCG064EF683FTBX	NTCG064BH103HTB	NTCG063JF103FTB	NTCG064BF473FTBX	NTCG064EF104FTBX
	1005 [0402]		NTCG104BH102HT1	NTCG104LH223HT1	NTCG104BF683FT1X	NTCG104BH103HT1	NTCG103JF103FT1	NTCG104BF473FT1X	NTCG104EF104FT1X
	1608 [0603]		NTCG164BH102HT1	NTCG164LH223HT1	NTCG164LH683HT1	NTCG164BH103HT1	NTCG163JF103FT1	NTCG164BF473FT1	NTCG164KF104FT1
Low profile	0603 [0201]		N/A	N/A	N/A	N/A	N/A	N/A	NTCG064EF104FTNX
Conductive epoxy application	0603 [0201]		N/A	N/A	N/A	N/A	N/A	N/A	NTCG064EF104FTBXP
Copper plating for embedded	0603 [0201]		N/A	N/A	N/A	N/A	NTCG063JF103FTLE	N/A	N/A

Automotive Grade

Type	Dimensions-code JIS[EIA]	Use circuit example	Temperature compensation for various types of circuits			BMS	V2X	LED	
			2.2kΩ	22kΩ	4.7kΩ	10kΩ	10kΩ	68kΩ	100kΩ
		Resistance (R25)	2.2kΩ	22kΩ	4.7kΩ	10kΩ	10kΩ	68kΩ	100kΩ
		B constant (B25/85)	4000K to 4550K	4000K to 4550K	4000K to 4550K	4100K to 4750K	3435K to 4550K	4000K to 4750K	4000K to 4550K
Applicable to automobile (125°C)	1005 [0402]		N/A	N/A	N/A	N/A	NTCG103JF103FTDS	NTCG104BF683FTDSX	NTCG104EF104FTDSX
	1608 [0603]		NTCG164BH222JTDS	NTCG164LH223JTDS	NTCG164BH472JTDS	NTCG164BH103JTDS	NTCG163JF103FTDS	N/A	NTCG164KF104FTDS
Applicable to automobile (150°C)	1005 [0402]		N/A	N/A	N/A	N/A	NTCG103JF103FT1S	N/A	NTCG104EF104FT1SX
	1608 [0603]		N/A	N/A	N/A	N/A	NTCG163JF103FT1S	N/A	NTCG164KF104FT1S