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NTCG

**NTC Chip Thermistor
Temperature Sensing Device**

PRODUCT:

NTCG163JF103FT1S

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Dimensions and construction

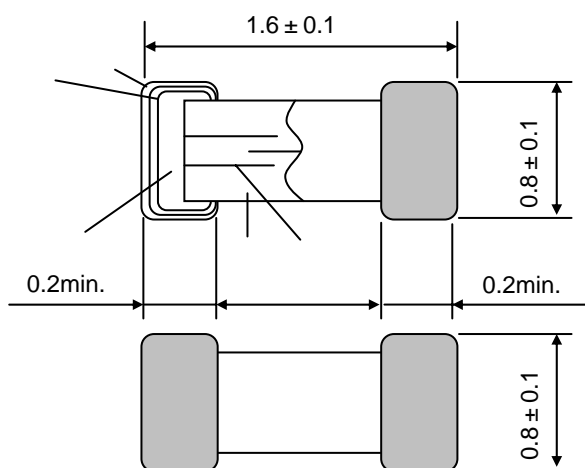


TABLE1. Parts List

	Part Name	Material
	Element	Manganese, Nickel-oxide base Ceramics materials
	Inner electrodes	Palladium
	Terminal electrodes	Silver base
		Nickel-plating
		Tin-plating

Operating temperature range

-40 ~ +150°C

TABLE 2. Electric Performance:

Item	Symbol	Specification
Nominal resistance and tolerance	R25	10kΩ ± 1%
B value and tolerance	B25/85	3435K ± 1%
Maximum rated power (condition: chip)	P25	100 mW / 25°C in still air

TABLE 3. Resistance - Temperature Characteristics (condition: chip in silicone oil)

Temp (°C)	Min (kΩ)	Nom (kΩ)	Max (kΩ)	Temp (°C)	Min (kΩ)	Nom (kΩ)	Max (kΩ)	Temp (°C)	Min (kΩ)	Nom (kΩ)	Max (kΩ)
-40.0	181.2	188.5	196.1	25.0	9.90	10.00	10.10	90.0	1.229	1.267	1.306
-35.0	139.1	144.3	149.7	30.0	8.21	8.31	8.41	95.0	1.075	1.110	1.146
-30.0	107.6	111.3	115.2	35.0	6.848	6.94	7.04	100.0	0.943	0.975	1.008
-25.0	83.9	86.6	89.3	40.0	5.736	5.826	5.916	105.0	0.830	0.860	0.890
-20.0	65.8	67.8	69.8	45.0	4.827	4.911	4.996	110.0	0.733	0.760	0.788
-15.0	52.05	53.46	54.91	50.0	4.081	4.158	4.237	115.0	0.649	0.674	0.699
-10.0	41.42	42.45	43.50	55.0	3.464	3.536	3.609	120.0	0.577	0.599	0.622
-5.0	33.18	33.93	34.69	60.0	2.953	3.019	3.086	125.0	0.514	0.534	0.556
0.0	26.74	27.28	27.83	65.0	2.528	2.588	2.650	130.0	0.459	0.478	0.497
5.0	21.68	22.07	22.47	70.0	2.172	2.227	2.284	135.0	0.411	0.428	0.446
10.0	17.68	17.96	18.25	75.0	1.874	1.924	1.976	140.0	0.368	0.385	0.401
15.0	14.49	14.70	14.90	80.0	1.622	1.668	1.715	145.0	0.332	0.346	0.362
20.0	11.95	12.09	12.24	85.0	1.409	1.451	1.494	150.0	0.299	0.313	0.327