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NTCG

NTC Chip Thermistor
Temperature Sensing Device

PRODUCT:NTCG164BH103JTDS

This product is compliant with the
AEC-Q200 standard.

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Dimensions and construction

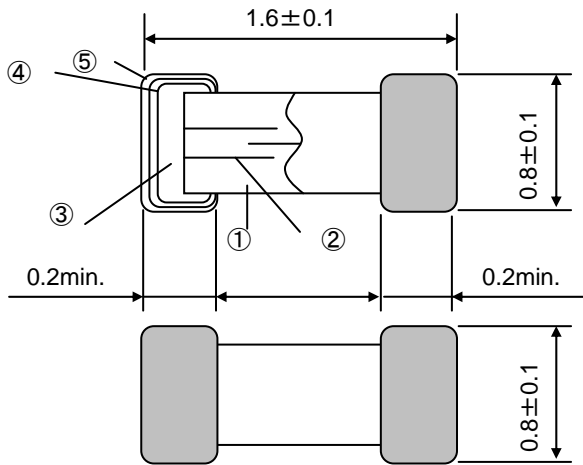


TABLE1. Parts List

	Part Name	Material
①	Element	Manganese, Nickel-oxide base Ceramics materials
②	Inner electrodes	Palladium
③	Terminal	Silver base
④	electrodes	Nickel-plating
⑤		Tin-plating

Operating temperature range

-40 ~ +125°C

TABLE 2. Electric Performance:

Item	Symbol	Specification
Nominal resistance and tolerance	R25	10kΩ ± 5%
B value and tolerance	B25/85	4100K ± 3%
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	327.3	384.4	450.3	20.0	11.88	12.59	13.31	80.0	1.049	1.177	1.318
-35.0	235.2	273.4	317.1	25.0	9.500	10.00	10.50	85.0	0.886	0.999	1.124
-30.0	171.0	196.8	226.0	30.0	7.546	7.997	8.453	90.0	0.751	0.851	0.962
-25.0	125.7	143.3	163.0	35.0	6.034	6.437	6.848	95.0	0.640	0.729	0.828
-20.0	93.33	105.4	118.8	40.0	4.857	5.213	5.582	100.0	0.547	0.626	0.714
-15.0	70.00	78.37	87.54	45.0	3.933	4.248	4.576	105.0	0.470	0.540	0.619
-10.0	52.99	58.83	65.14	50.0	3.204	3.481	3.773	110.0	0.405	0.468	0.538
-5.0	40.48	44.56	48.93	55.0	2.625	2.869	3.127	115.0	0.351	0.406	0.470
0.0	31.18	34.06	37.10	60.0	2.163	2.377	2.606	120.0	0.304	0.354	0.411
5.0	24.22	26.25	28.37	65.0	1.791	1.979	2.182	125.0	0.265	0.310	0.361
10.0	18.96	20.39	21.87	70.0	1.491	1.657	1.836				
15.0	14.95	15.96	17.00	75.0	1.248	1.393	1.552				