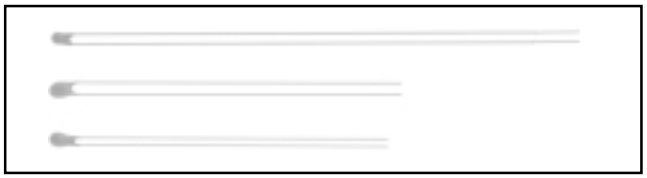
NTC Thermistors

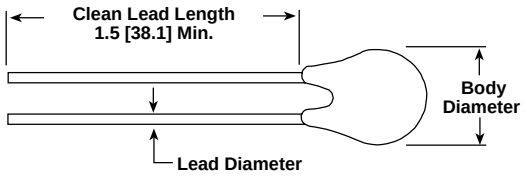
Coated



FEATURES

- Small size - conformally coated.
- Wide resistance range.
- Available in 11 different R-T curves.
- Configured for standard PC board mounting or assembly in probes.

STANDARD ELECTRICAL SPECIFICATIONS AND DIMENSIONAL CONFIGURATIONS



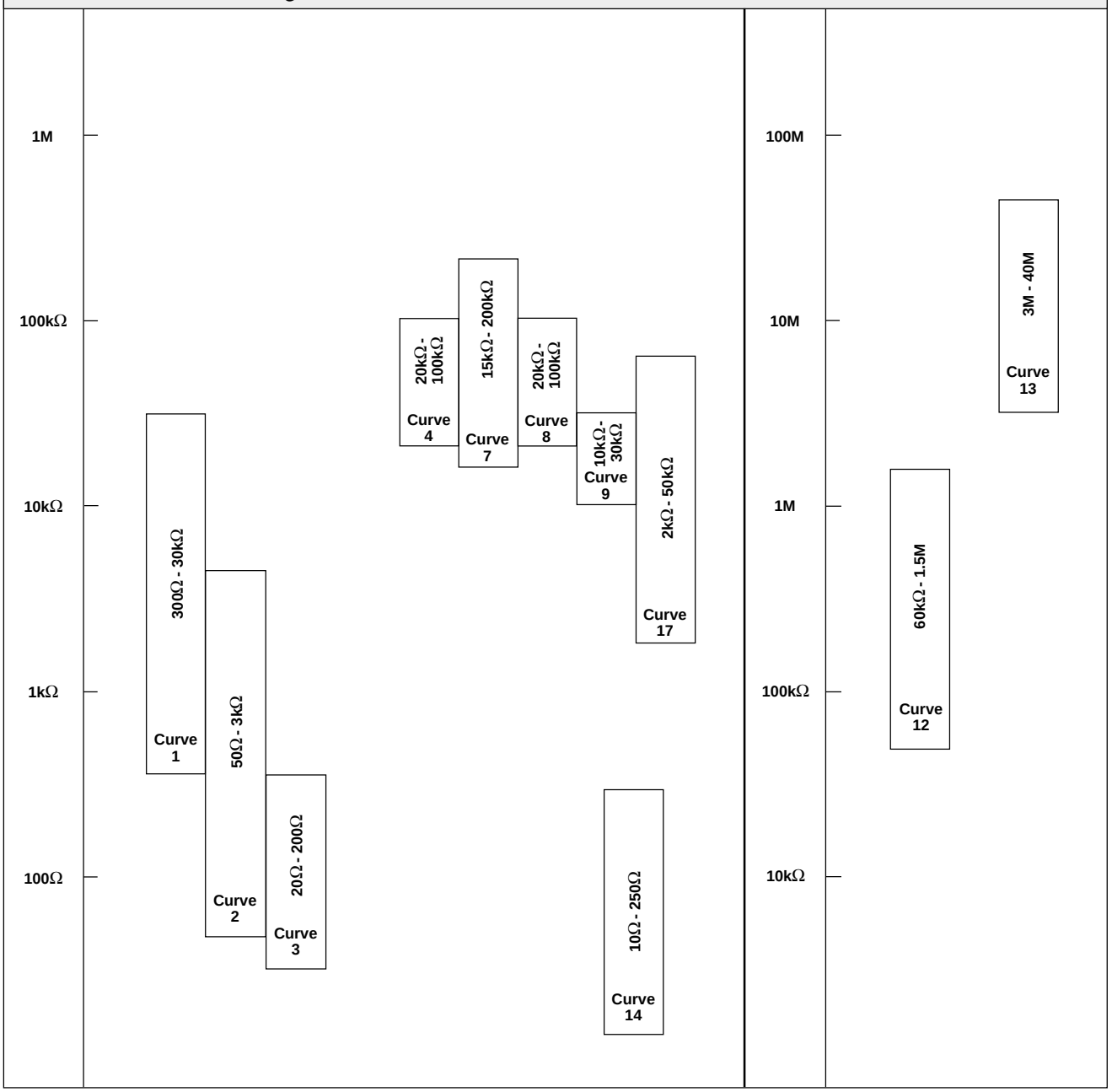
Models M, C and T are conformally coated, leaded thermistors for standard PC board mounting or assembly in probes. The coating is baked-on phenolic for durability and long-term stability. Models M and C have tinned solid copper leads. Model T has solid nickel wires with Teflon® insulation to provide isolation when assembled in metal probes or housings.

[Numbers in brackets indicate millimeters]

MODEL M ± 10%, ± 5%, ± 1% R_{25} tolerance. Leads solid tinned copper 1.8 ± 0.20 [45.7 ± 5.1] long AWG30 (.0100 [0.254]).	**R_{25} (Ohms)**	**PART NUMBER**	**CURVE NUMBER**	**DISSIPATION CONSTANT (Nominal)**	**THERMAL TIME CONSTANT (Nominal)**	**BODY DIAMETER (Maximum)**
	1.0M	12M1004*	12	—	—	0.089 [2.3]
	200,000	7M2003	7	2.5	6	0.097 [2.5]
	150,000	7M1503	7	2.5	8	0.095 [2.4]
	100,000	7M1003	7	—	—	0.100 [2.5]
	100,000	8M1003	8	2.7	7	0.095 [2.4]
	100,000	4M1003	4	2.6	4	0.100 [2.5]
	80,000	8M8002	8	—	—	0.097 [2.5]
	50,000	8M5002	8	—	—	0.102 [2.6]
	50,000	7M5002	7	3.0	5	0.101 [2.6]
	50,000	4M5002	4	2.3	5	0.089 [2.3]
	30,000	8M3002	8	2.9	5	0.099 [2.5]
	30,000	4M3002	4	2	10	0.090 [2.3]
	30,000	1M3002	1	—	—	0.097 [2.5]
	25,000	1M2502	1	—	—	0.097 [2.5]
	20,000	9M2002	9	2	10	0.095 [2.4]
	20,000	1M2002	1	—	—	0.097 [2.5]
	17,500	1M1752	1	—	—	0.095 [2.4]
	15,000	1M1502	1	—	—	0.097 [2.5]
	10,000	9M1002	9	2.8	7	0.095 [2.4]
	10,000	1M1002	1	2.7	4	0.090 [2.3]
	6000	1M6001	1	2	10	0.090 [2.3]
	5000	1M5001	1	2	10	0.090 [2.3]
	2252	1M2251	1	3	12	0.099 [2.5]
	2000	2M2001	2	3	12	0.115 [2.9]
	1000	2M1001	2	3	12	0.090 [2.3]

*Available in ± 10% and ± 5% R_{25} tolerance only.

RESISTANCE VALUES @ 25°C



STANDARD ELECTRICAL SPECIFICATIONS AND DIMENSIONAL CONFIGURATIONS

	R_{25} (Ohms)	PART NUMBER	CURVE NUMBER	DISSIPATION CONSTANT (Nominal)	THERMAL TIME CONSTANT (Nominal)	BODY DIAMETER (Maximum)
MODEL C ± 10%, ± 5%, ± 1% R_{25} tolerance. Leads solid tinned copper 1.8 ± 0.20 [45.7 ± 5.1] long, AWG28 (0.0126 [0.320]).	500,000	12C5003*	12	—	—	0.102 [2.6]
	250,000	12C2503*	12	—	—	0.129 [3.3]
	150,000	12C1503*	12	—	—	0.156 [4.0]
	100,000	12C1003*	12	—	—	0.183 [4.6]
	100,000	7C1003	7	3	12	0.100 [2.5]
	50,000	7C5002	7	3	12	0.101 [2.6]
	30,000	7C3002	7	—	—	0.118 [3.0]
	30,000	8C3002	8	—	—	0.099 [2.5]
	30,000	4C3002	4	2.5	12	0.099 [2.5]
	20,000	8C2002	8	—	—	0.131 [3.3]
	20,000	7C2002	7	—	—	0.131 [3.3]
	20,000	4C2002	4	3	12	0.102 [2.6]
	10,000	1C1002	1	3.7	6	0.101 [2.6]
	9000	1C9001	1	3	12	0.101 [2.6]
	8000	1C8001	1	3	12	0.099 [2.5]
	7000	1C7001	1	3	12	0.102 [2.6]
	6000	1C6001	1	3	12	0.101 [2.6]
	4000	1C4001	1	3	12	0.102 [2.6]
	3000	1C3001	1	3	12	0.099 [2.5]
	2000	1C2001	1	3.5	16	0.099 [2.5]
	1500	1C1501	1	—	—	0.140 [3.6]
	1250	1C1251	1	—	—	0.151 [3.8]
	1000	1C1001	1	—	—	0.164 [4.2]
	1000	2C1001	2	3.5	4	0.100 [2.5]
	900	2C9000	2	3	12	0.100 [2.5]
	800	2C8000	2	3	12	0.100 [2.5]
	700	2C7000	2	3	12	0.103 [2.6]
	600	2C6000	2	3	12	0.104 [2.6]
	500	2C5000	2	3	12	0.110 [2.8]
	400	2C4000	2	—	—	0.119 [3.0]
	300	2C3000	2	—	—	0.132 [3.4]
	200	2C2000	2	3.5	18	0.155 [4.0]
	150	2C1500	2	—	—	0.171 [4.3]
	100	2C1000	2	4	20	0.202 [5.1]
	50	2C0500	2	—	—	0.273 [6.9]
MODEL T ± 10%, ± 5%, ± 1% R_{25} tolerance. Leads Teflon® insulated solid nickel 3.0 ± 0.25 [76.2 ± 6.4] long, AWG30 (0.0100 [0.254]).	100,000	8T1003	8	—	—	0.095 [2.4]
	100,000	4T1003	4	—	—	0.100 [2.5]
	50,000	8T5002	8	—	—	0.102 [2.6]
	50,000	4T5002	4	—	—	0.089 [2.3]
	30,000	8T3002	8	—	—	0.099 [2.5]
	30,000	4T3002	4	2	12	0.090 [2.3]
	20,000	9T2002	9	2	12	0.095 [2.4]
	20,000	1T2002	1	—	—	0.097 [2.5]
	10,000	9T1002	9	2	14	0.095 [2.4]
	10,000	1T1002	1	2	12	0.090 [2.3]
	5000	1T5001	1	2	12	0.090 [2.3]
	3000	1T3001	1	2	13	0.099 [2.5]
	2252	1T2251	1	2	14	0.099 [2.5]

*Available in ± 10% and ± 5% R_{25} tolerance only. [Numbers in brackets indicate millimeters]

HOW TO ORDER

1	C	2001	J
CURVE NUMBER	MODEL	VALUE	TOLERANCE @ + 25°C
		First three digits are significant. The last digit is the multiplier. (2000 ohms is illustrated.)	K = ± 10% J = ± 5% F = ± 1%