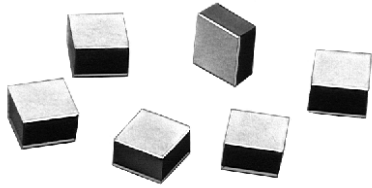


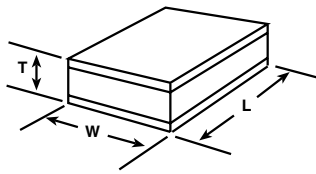
## NTC Thermistors, Surface Mount Chip



### FEATURES

- Top and bottom surface terminations
- High-density monolithic ceramic construction
- Allows design flexibility for use with hybrid circuitry
- Model W is a thermistor die with silver conductors fired on the top and bottom surfaces. The bottom surface can be reflow soldered or conductive epoxied directly to a substrate bonding pad and the top surface wire bonded to complete the circuit connection.

### STANDARD ELECTRICAL SPECIFICATIONS AND DIMENSIONS in inches (millimeters)



$R_{25}$ ( $\Omega$ )	PART NUMBER	CURVE NUMBER	L	W	T (nominal)
1M	12W1004	12	0.043 $\pm$ 0.004 (10.1 $\pm$ 0.10)	0.043 $\pm$ 0.004 (10.1 $\pm$ 0.10)	0.020 (0.51)
500 000	12W5003	12	0.053 $\pm$ 0.004 (10.4 $\pm$ 0.10)	0.053 $\pm$ 0.004 (10.4 $\pm$ 0.10)	0.016 (0.41)
250 000	12W2503	12	0.075 $\pm$ 0.006 (10.9 $\pm$ 0.15)	0.075 $\pm$ 0.006 (10.9 $\pm$ 0.15)	0.016 (0.41)
200 000	07W2003	7	0.041 $\pm$ 0.004 (10.0 $\pm$ 0.10)	0.041 $\pm$ 0.004 (10.0 $\pm$ 0.10)	0.033 (0.84)
100 000	12W1003	12	0.119 $\pm$ 0.008 (30.0 $\pm$ 0.20)	0.119 $\pm$ 0.008 (30.0 $\pm$ 0.20)	0.016 (0.41)
100 000	08W1003	8	0.049 $\pm$ 0.004 (10.2 $\pm$ 0.10)	0.049 $\pm$ 0.004 (10.2 $\pm$ 0.10)	0.029 (0.74)
100 000	07W1003	7	0.054 $\pm$ 0.005 (10.4 $\pm$ 0.13)	0.054 $\pm$ 0.005 (10.4 $\pm$ 0.13)	0.029 (0.74)
80 000	08W8002	8	0.049 $\pm$ 0.004 (10.2 $\pm$ 0.10)	0.049 $\pm$ 0.004 (10.2 $\pm$ 0.10)	0.024 (0.61)
50 000	08W5002	8	0.053 $\pm$ 0.004 (10.4 $\pm$ 0.10)	0.053 $\pm$ 0.004 (10.4 $\pm$ 0.10)	0.018 (0.46)
50 000	07W5002	7	0.051 $\pm$ 0.004 (10.3 $\pm$ 0.10)	0.051 $\pm$ 0.004 (10.3 $\pm$ 0.10)	0.014 (0.36)
30 000	08W3002	8	0.072 $\pm$ 0.005 (10.8 $\pm$ 0.13)	0.054 $\pm$ 0.005 (10.4 $\pm$ 0.13)	0.015 (0.38)
30 000	07W3002	7	0.069 $\pm$ 0.005 (10.8 $\pm$ 0.13)	0.069 $\pm$ 0.005 (10.8 $\pm$ 0.13)	0.015 (0.38)
30 000	01W3002	1	0.029 $\pm$ 0.003 (0.74 $\pm$ 0.08)	0.029 $\pm$ 0.003 (0.74 $\pm$ 0.08)	0.032 (0.81)
20 000	01W2002	1	0.035 $\pm$ 0.004 (0.89 $\pm$ 0.10)	0.035 $\pm$ 0.004 (0.89 $\pm$ 0.10)	0.032 (0.81)
15 000	01W1502	1	0.041 $\pm$ 0.004 (10.0 $\pm$ 0.10)	0.041 $\pm$ 0.004 (10.0 $\pm$ 0.10)	0.032 (0.81)
10 000	01W1002	1	0.050 $\pm$ 0.005 (10.3 $\pm$ 0.13)	0.050 $\pm$ 0.005 (10.3 $\pm$ 0.13)	0.032 (0.81)
3000	01W3001	1	0.068 $\pm$ 0.005 (10.7 $\pm$ 0.13)	0.054 $\pm$ 0.004 (10.4 $\pm$ 0.10)	0.015 (0.38)
2000	01W2001	1	0.101 $\pm$ 0.006 (20.6 $\pm$ 0.15)	0.054 $\pm$ 0.004 (10.4 $\pm$ 0.10)	0.015 (0.38)
2000	02W2001	2	0.049 $\pm$ 0.004 (10.2 $\pm$ 0.10)	0.049 $\pm$ 0.004 (10.2 $\pm$ 0.10)	0.037 (0.94)
1000	02W1001	2	0.053 $\pm$ 0.004 (10.4 $\pm$ 0.10)	0.053 $\pm$ 0.004 (10.4 $\pm$ 0.10)	0.022 (0.56)
1000	01W1001	1	0.105 $\pm$ 0.006 (20.7 $\pm$ 0.15)	0.105 $\pm$ 0.006 (20.7 $\pm$ 0.15)	0.015 (0.38)
500	02W5000	2	0.060 $\pm$ 0.005 (10.5 $\pm$ 0.13)	0.060 $\pm$ 0.005 (10.5 $\pm$ 0.13)	0.015 (0.38)
500	01W5000	1	0.148 $\pm$ 0.006 (30.8 $\pm$ 0.15)	0.148 $\pm$ 0.006 (30.8 $\pm$ 0.15)	0.015 (0.38)
300	02W3000	2	0.077 $\pm$ 0.006 (20.0 $\pm$ 0.15)	0.077 $\pm$ 0.006 (20.0 $\pm$ 0.15)	0.015 (0.38)
50	02W0500	2	0.188 $\pm$ 0.012 (40.8 $\pm$ 0.31)	0.188 $\pm$ 0.012 (40.8 $\pm$ 0.31)	0.015 (0.38)

### GLOBAL PART NUMBER INFORMATION

Global Part Numbering: 08W8002KT (preferred part number format)

0 8 W 1 0 0 2 K E

CURVE	GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING
01 02 07 08 12	W	1002 = 10K	J = $\pm$ 5 % K = $\pm$ 10 %	E = Lead (Pb)-free, tray T = Tin/Lead, tray



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