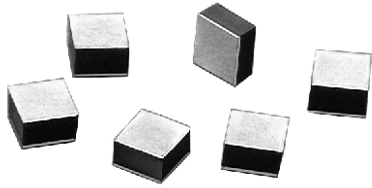


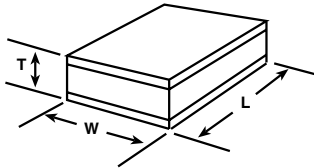
NTC Thermistors, Surface Mount Chip



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]



R25 (Ω)	PART NUMBER	CURVE NUMBER	L	W	T (nominal)
10.0M	12W1004	12	0.043 ± 0.004 [10.1 ± 0.10]	0.043 ± 0.004 [10.1 ± 0.10]	0.020 [0.51]
500 000	12W5003	12	0.053 ± 0.004 [10.4 ± 0.10]	0.053 ± 0.004 [10.4 ± 0.10]	0.016 [0.41]
250 000	12W2503	12	0.075 ± 0.006 [10.9 ± 0.15]	0.075 ± 0.006 [10.9 ± 0.15]	0.016 [0.41]
200 000	7W2003	7	0.041 ± 0.004 [10.0 ± 0.10]	0.041 ± 0.004 [10.0 ± 0.10]	0.033 [0.84]
100 000	12W1003	12	0.119 ± 0.008 [30.0 ± 0.20]	0.119 ± 0.008 [30.0 ± 0.20]	0.016 [0.41]
100 000	8W1003	8	0.049 ± 0.004 [10.2 ± 0.10]	0.049 ± 0.004 [10.2 ± 0.10]	0.029 [0.74]
100 000	7W1003	7	0.054 ± 0.005 [10.4 ± 0.13]	0.054 ± 0.005 [10.4 ± 0.13]	0.029 [0.74]
80 000	8W8002	8	0.049 ± 0.004 [10.2 ± 0.10]	0.049 ± 0.004 [10.2 ± 0.10]	0.024 [0.61]
50 000	8W5002	8	0.053 ± 0.004 [10.4 ± 0.10]	0.053 ± 0.004 [10.4 ± 0.10]	0.018 [0.46]
50 000	7W5002	7	0.051 ± 0.004 [10.3 ± 0.10]	0.051 ± 0.004 [10.3 ± 0.10]	0.014 [0.36]
30 000	8W3002	8	0.072 ± 0.005 [10.8 ± 0.13]	0.054 ± 0.005 [10.4 ± 0.13]	0.015 [0.38]
30 000	7W3002	7	0.069 ± 0.005 [10.8 ± 0.13]	0.069 ± 0.005 [10.8 ± 0.13]	0.015 [0.38]
30 000	1W3002	1	0.029 ± 0.003 [0.74 ± 0.08]	0.029 ± 0.003 [0.74 ± 0.08]	0.032 [0.81]
20 000	1W2002	1	0.035 ± 0.004 [0.89 ± 0.10]	0.035 ± 0.004 [0.89 ± 0.10]	0.032 [0.81]
15 000	1W1502	1	0.041 ± 0.004 [10.0 ± 0.10]	0.041 ± 0.004 [10.0 ± 0.10]	0.032 [0.81]
10 000	1W1002	1	0.050 ± 0.005 [10.3 ± 0.13]	0.050 ± 0.005 [10.3 ± 0.13]	0.032 [0.81]
3000	1W3001	1	0.068 ± 0.005 [10.7 ± 0.13]	0.054 ± 0.004 [10.4 ± 0.10]	0.015 [0.38]
2000	1W2001	1	0.101 ± 0.006 [20.6 ± 0.15]	0.054 ± 0.004 [10.4 ± 0.10]	0.015 [0.38]
2000	2W2001	2	0.049 ± 0.004 [10.2 ± 0.10]	0.049 ± 0.004 [10.2 ± 0.10]	0.037 [0.94]
1000	2W1001	2	0.053 ± 0.004 [10.4 ± 0.10]	0.053 ± 0.004 [10.4 ± 0.10]	0.022 [0.56]
1000	1W1001	1	0.105 ± 0.006 [20.7 ± 0.15]	0.105 ± 0.006 [20.7 ± 0.15]	0.015 [0.38]
500	2W5000	2	0.060 ± 0.005 [10.5 ± 0.13]	0.060 ± 0.005 [10.5 ± 0.13]	0.015 [0.38]
500	1W5000	1	0.148 ± 0.006 [30.8 ± 0.15]	0.148 ± 0.006 [30.8 ± 0.15]	0.015 [0.38]
300	2W3000	2	0.077 ± 0.006 [20.0 ± 0.15]	0.077 ± 0.006 [20.0 ± 0.15]	0.015 [0.38]
50	2W0500	2	0.188 ± 0.012 [40.8 ± 0.31]	0.188 ± 0.012 [40.8 ± 0.31]	0.015 [0.38]

GLOBAL PART NUMBER INFORMATION

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

0 8 W 1 0 0 2 K T

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

Historical Part Number example: TOMC16011002Z (will continue to be accepted)

08	W	8002	K	T
HISTORICAL CURVE	GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING



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Vishay:

01W3002KP 08W8002JP 07W5002JP 08W5002JP 07W1003KP 08W1003KP 01W1002KP 01W1002JP 2W5000
02W5000KP 02W1001JP 01W5001JP 1W1001-10 01W2002JP 07W3002JP 02W1000JP 02W1000KP
02W5000JP 01W2001JP