



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Sample Kit Surface Mount Thermistors NTCS, TFPT, NTHS, PTS



### FEATURES

- NTC and PTC thermistors
- AEC-Q200 qualified and UL certified products available
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

The commercial-off-the-shelf thermistors are now conveniently taped in strips, individually labeled and packaged in new engineering design kits.

SPECIFICATIONS				
Engineering kit	SMD Thermistors-Sample Kit			
Thermistor series	NTCS, NTCS...SMT	NTHS	PTS	TFPT
Case size	0402, 0603, 0805	0603, 0805, 1206	0603, 0805, 1206	0603, 0805, 1206
Resistance range	2 kΩ to 680 kΩ	22 kΩ to 330 kΩ	100 Ω to 1 kΩ	100 Ω to 10 kΩ
Tolerance	± 1 %, ± 3 %, ± 5 %	± 5 %	± 0.3 K	± 1 %
B <sub>25/85</sub> /TCR	3420 K to 4125 K	3715 K to 4073 K	3850 ppm/°C	4110 ppm/°C
Number of SAP materials	67	15	5	22
Thermistors per value / case size	100 pieces / 0402 50 pieces / 0603 and 0805	50 pieces / case size	25 pieces / case size	25 pieces / case size

### Note

- For further information please refer to product datasheet:  
NTCS0402: [www.vishay.com/doc?29003](http://www.vishay.com/doc?29003); NTCS0603: [www.vishay.com/doc?29056](http://www.vishay.com/doc?29056); NTCS0805: [www.vishay.com/doc?29044](http://www.vishay.com/doc?29044);  
NTCS...SMT: [www.vishay.com/doc?29151](http://www.vishay.com/doc?29151); NTHS: [www.vishay.com/doc?33008](http://www.vishay.com/doc?33008); PTS: [www.vishay.com/doc?28762](http://www.vishay.com/doc?28762);  
TFPT: [www.vishay.com/doc?33017](http://www.vishay.com/doc?33017).

PART NUMBER AND PRODUCT DESCRIPTION																			
PART NUMBER: NTCSTFPTNTHSPTSLAB																			
<table border="1" style="width: 100%; text-align: center;"> <tr> <td>N</td><td>T</td><td>C</td><td>S</td><td>T</td><td>F</td><td>P</td><td>T</td><td>N</td><td>T</td><td>H</td><td>S</td><td>P</td><td>T</td><td>S</td><td>L</td><td>A</td><td>B</td> </tr> </table>		N	T	C	S	T	F	P	T	N	T	H	S	P	T	S	L	A	B
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ELECTRICAL DATA AND ORDERING INFORMATION

Table with columns: SAP MATERIAL, R25-VALUE (kΩ), TOL. ON R25 (%), B25/85 (K), TOL. ON B25/85 (%), CURVE. Rows include various thermistor models like NTCS0402E3472HMT, NTCS0603E3202JLT, etc.



ELECTRICAL DATA AND ORDERING INFORMATION					
NTCS AND NTHS SERIES					
SAP MATERIAL	R <sub>25</sub> -VALUE (kΩ)	TOL. ON R <sub>25</sub> (%)	B <sub>25/85</sub> (K)	TOL. ON B <sub>25/85</sub> (%)	CURVE
NTCS0805E3104FMT	100	± 1	3590	± 1	-
NTCS0805E3104HMT	100	± 3	3590	± 1	-
NTCS0805E3104FXT	100	± 1	4100	± 1	-
NTCS0805E3104HXT	100	± 3	4100	± 1	-
NTCS0805E3334FHT	330	± 1	3930	± 1	-
NTCS0805E3334HHT	330	± 3	3930	± 1	-
NTCS0805E3474FXT	470	± 1	4025	± 1	-
NTCS0805E3474HXT	470	± 3	4025	± 1	-
NTCS0805E3684FXT	680	± 1	4125	± 1	-
NTCS0805E3684HXT	680	± 3	4125	± 1	-
NTHS0603N01N1003JE	100	± 5	3974	± 3	1
NTHS0603N01N5002JE	50	± 5	3974	± 3	1
NTHS0603N01N3302JE	33	± 5	3974	± 3	1
NTHS0603N04N2203JE	220	± 5	4073	± 3	4
NTHS0603N05N2202JE	22	± 5	3900	± 3	5
NTHS0603N11N3002JE	30	± 5	3715	± 3	11
NTHS0805N01N5002JE	50	± 5	3974	± 3	1
NTHS0805N05N5002JE	50	± 5	3900	± 3	5
NTHS0805N17N1003JE	100	± 5	4073	± 3	17
NTHS0805N17N2003JE	200	± 5	4073	± 3	17
NTHS1206N01N1003JE	100	± 5	3974	± 3	1
NTHS1206N01N4702JE	4.7	± 5	3974	± 3	1
NTHS1206N04N2203JE	220	± 5	4262	± 3	4
NTHS1206N11N2202JE	2.2	± 5	3715	± 3	11
NTHS1206N17N1003JE	100	± 5	4073	± 3	17

ELECTRICAL DATA AND ORDERING INFORMATION						
PTS AND TFPT SERIES						
SAP MATERIAL	R <sub>0</sub> -VALUE (Ω)	TOL. ON R <sub>0</sub> (%)	R <sub>25</sub> -VALUE (Ω)	TOL. ON R <sub>25</sub> (%)	TCR (ppm/°C)	TOL. ON TCR (ppm/°C)/TOL. CLASS
PTS060301B100RP100	100	± 0.12	-	-	3850	F0.3
PTS080501B100RP100	100	± 0.12	-	-	3850	F0.3
PTS080501B500RP100	500	± 0.12	-	-	3850	F0.3
PTS120601B100RP100	100	± 0.12	-	-	3850	F0.3
PTS120601B1K00P100	1K	± 0.12	-	-	3850	F0.3
TFPT0603L1000FV	-	-	100	± 1	4110	± 400
TFPT0603L1001FV	-	-	1K	± 1	4110	± 400
TFPT0603L1500FV	-	-	150	± 1	4110	± 400
TFPT0603L3300FV	-	-	330	± 1	4110	± 400
TFPT0603L3900FV	-	-	390	± 1	4110	± 400
TFPT0805L1000FV	-	-	100	± 1	4110	± 400
TFPT0805L1001FV	-	-	1K	± 1	4110	± 400
TFPT0805L1200FV	-	-	120	± 1	4110	± 400
TFPT0805L1501FV	-	-	1500	± 1	4110	± 400
TFPT0805L1800FV	-	-	180	± 1	4110	± 400
TFPT0805L1801FV	-	-	1.8K	± 1	4110	± 400
TFPT0805L2201FV	-	-	2.2K	± 1	4110	± 400
TFPT0805L3301FV	-	-	3.3K	± 1	4110	± 400
TFPT0805L3901FV	-	-	3.9K	± 1	4110	± 400
TFPT0805L4701FV	-	-	4.7K	± 1	4110	± 400
TFPT0805L5001FV	-	-	5K	± 1	4110	± 400
TFPT1206L1001FV	-	-	1K	± 1	4110	± 400
TFPT1206L1002FV	-	-	10K	± 1	4110	± 400
TFPT1206L2200FV	-	-	220	± 1	4110	± 400
TFPT1206L3900FV	-	-	390	± 1	4110	± 400
TFPT1206L5601FV	-	-	5.6K	± 1	4110	± 400
TFPT1206L6800FV	-	-	680	± 1	4110	± 400