



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



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 k Ω to 680 k Ω	22 k Ω to 330 k Ω	100 Ω to 1 k Ω	100 Ω to 10 k Ω
Tolerance	$\pm 1\%$, $\pm 3\%$, $\pm 5\%$	$\pm 5\%$	$\pm 0.3\%$	$\pm 1\%$
B _{25/85} /TCR	3420 K to 4125 K	3715 K to 4073 K	3850 ppm/ $^{\circ}$ C	4110 ppm/ $^{\circ}$ 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; NTCS0603: www.vishay.com/doc?29056; NTCS0805: www.vishay.com/doc?29044;
NTCS...SMT: www.vishay.com/doc?29151; NTHS: www.vishay.com/doc?33008; PTS: www.vishay.com/doc?28762;
TFPT: www.vishay.com/doc?33017.

PART NUMBER AND PRODUCT DESCRIPTION

PART NUMBER: NTCSTFPTNTHSPTSLAB

N T C S T F P T N T H S P T S L A B

KIT

NTCSTFPTNTHSPTSLAB

PRODUCT DESCRIPTION: SMD THERMISTORS LAB e3

SMD THERMISTORS LAB

e3

KIT

LEAD (Pb)-FREE

Laboratory kit, SMD thermistors

e3 = pure tin termination finish

**ELECTRICAL DATA AND ORDERING INFORMATION****NTCS AND NTHS SERIES**

SAP MATERIAL	R_{25} -VALUE (k Ω)	TOL. ON R_{25} (%)	$B_{25/85}$ (K)	TOL. ON $B_{25/85}$ (%)	CURVE
NTCS0402E3472HMT	4.7	± 3	3595	± 3	-
NTCS0402E3472JMT	4.7	± 5	3595	± 3	-
NTCS0402E3103FLT	10	± 1	3490	± 3	-
NTCS0402E3103HLT	10	± 3	3490	± 3	-
NTCS0402E3103HHT	10	± 3	3950	± 3	-
NTCS0402E3103JHT	10	± 5	3950	± 3	-
NTCS0402E3153HHT	15	± 3	3965	± 3	-
NTCS0402E3153JHT	15	± 5	3965	± 3	-
NTCS0402E3223HMT	22	± 3	3590	± 3	-
NTCS0402E3223JMT	22	± 5	3590	± 3	-
NTCS0402E3333HMT	33	± 3	3670	± 3	-
NTCS0402E3333JMT	33	± 5	3670	± 3	-
NTCS0402E3473FXT	47	± 1	4075	± 3	-
NTCS0402E3473HXT	47	± 3	4075	± 3	-
NTCS0402E3683HHT	68	± 3	3910	± 3	-
NTCS0402E3683JHT	68	± 5	3910	± 3	-
NTCS0402E3104FHT	100	± 1	3950	± 3	-
NTCS0402E3104HHT	100	± 3	3950	± 3	-
NTCS0402E3214SMT	210	± 1	3590	± 1	-
NTCS0603E3202JLT	2	± 5	3420	± 1	-
NTCS0603E3222FMT	2.2	± 1	3520	± 1	-
NTCS0603E3272FMT	2.7	± 1	3600	± 1	-
NTCS0603E3472FHT	4.7	± 1	3830	± 1	-
NTCS0603E3472HHT	4.7	± 3	3830	± 1	-
NTCS0603E3103FLT	10	± 1	3435	± 1	-
NTCS0603E3103HLT	10	± 3	3435	± 1	-
NTCS0603E3103FMT	10	± 1	3610	± 1	-
NTCS0603E3103HMT	10	± 3	3610	± 1	-
NTCS0603E3103FHT	10	± 1	3960	± 1	-
NTCS0603E3103HHT	10	± 3	3960	± 1	-
NTCS0603E3153FMT	15	± 1	3600	± 1	-
NTCS0603E3153HMT	15	± 3	3600	± 1	-
NTCS0603E3223FMT	22	± 1	3730	± 1	-
NTCS0603E3223HMT	22	± 3	3730	± 1	-
NTCS0603E3333FHT	33	± 1	3860	± 1	-
NTCS0603E3333HHT	33	± 3	3860	± 1	-
NTCS0603E3473FHT	47	± 1	3960	± 1	-
NTCS0603E3473HHT	47	± 3	3960	± 1	-
NTCS0603E3683FHT	68	± 1	3985	± 1	-
NTCS0603E3683HHT	68	± 3	3985	± 1	-
NTCS0603E3104FXT	100	± 1	4100	± 1	-
NTCS0603E3104HXT	100	± 3	4100	± 1	-
NTCS0603E3124SMT	122	± 1	3590	± 1	-
NTCS0805E3222FMT	2.2	± 1	3600	± 1	-
NTCS0805E3472FMT	4.7	± 1	3500	± 1	-
NTCS0805E3103FLT	10	± 1	3430	± 3	-
NTCS0805E3103HLT	10	± 3	3430	± 3	-
NTCS0805E3103FMT	10	± 1	3570	± 3	-
NTCS0805E3103HMT	10	± 3	3570	± 3	-
NTCS0805E3103FHT	10	± 1	3940	± 1	-
NTCS0805E3103HHT	10	± 3	3940	± 1	-
NTCS0805E3153FMT	15	± 1	3700	± 1	-
NTCS0805E3223FHT	22	± 1	3800	± 1	-
NTCS0805E3333FHT	33	± 1	3920	± 1	-
NTCS0805E3473FHT	47	± 1	3960	± 1	-
NTCS0805E3683FXT	68	± 1	4100	± 1	-
NTCS0805E3683HXT	68	± 3	4100	± 1	-

**ELECTRICAL DATA AND ORDERING INFORMATION****NTCS AND NTHS SERIES**

SAP MATERIAL	R_{25} -VALUE (k Ω)	TOL. ON R_{25} (%)	$B_{25/85}$ (K)	TOL. ON $B_{25/85}$ (%)	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_0 -VALUE (Ω)	TOL. ON R_0 (%)	R_{25} -VALUE (Ω)	TOL. ON R_{25} (%)	TCR (ppm/ $^{\circ}$ C)	TOL. ON TCR (ppm/ $^{\circ}$ 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

Mouser Electronics

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