



- Delphi TS10075 Engine Coolant Temperature Sensor
- AC Delco 213-928 GM _ Temperature Sensor
- -40-125°C Operating Temperature
- +- 1% @ 25C
- NTC Polyimide Sheath probe
- Beta 3977 NTC (Other Options available)
- IP65
- Quick Disconnect
- Media – Liquid, Air, & Gas



DESCRIPTION

The PTS40 temperature sensor was specifically designed for temperature applications in the automotive aftermarket and industrial markets. The part is fit, form, and function the same as the Delphi TS10075, and AC Delco 213-928. The brass tube encapsulated NTC allows for protection against water ingress that cause traditional temperature sensors to fail. The simple design can be modified to meet our OEM customers challenging applications. The low cost semi-automated manufacturing process allows for a cost effective solution.

APPLICATIONS

- Process Control
- Automotive
- Engine Coolant, Oil
- SPAS
- HVAC

Maximum Environmental Ratings

Operating Temperature -40°C to 125°C

Storage Temperature Range -60°C to 125°C

Resistance vs Temperature Chart

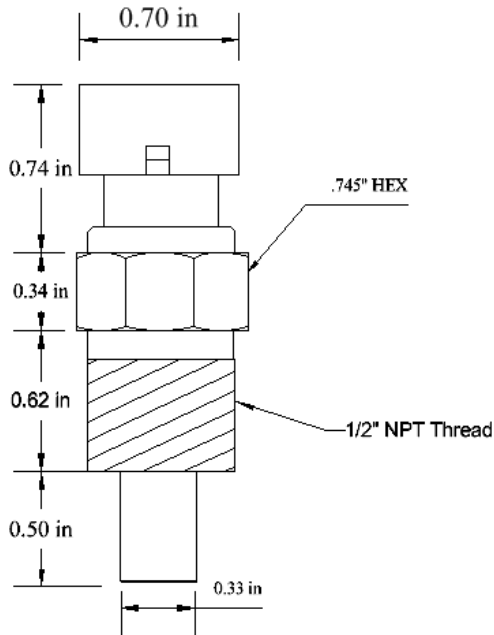
Example - 100Kohm NTC R vs. T

(other RT charts available)

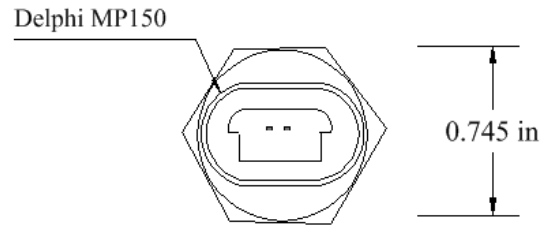
T[-C]	R nom[Ohm]	R min[Ohm]	R max[Ohm]	deltaR/R [+-%]	deltaT [+--C]	alpha [%K]
-55	9877500.0	8855700.0	10899000.0	10.3	1.4	7.4
-50	6864800.0	6186000.0	7543500.0	9.9	1.4	7.1
-45	4833700.0	4376800.0	5290600.0	9.5	1.4	6.9
-40	3445800.0	3134300.0	3757200.0	9.0	1.4	6.7
-35	2485200.0	2270400.0	2700000.0	8.6	1.3	6.4
-30	1812400.0	1662600.0	1962100.0	8.3	1.3	6.2
-25	1335600.0	1230100.0	1441200.0	7.9	1.3	6.0
-20	994130.0	919000.0	1069300.0	7.6	1.3	5.8
-15	747000.0	693030.0	800980.0	7.2	1.3	5.6
-10	566390.0	527260.0	605510.0	6.9	1.3	5.4
-5	433140.0	404540.0	461740.0	6.6	1.3	5.3
0	333960.0	312890.0	355030.0	6.3	1.2	5.2
5	258500.0	242920.0	274080.0	6.0	1.2	5.0
10	201660.0	190050.0	213270.0	5.8	1.2	4.9
15	158500.0	149790.0	167210.0	5.5	1.2	4.7
20	125470.0	118890.0	132050.0	5.2	1.1	4.6
25	100000.0	95000.0	105000.0	5.0	1.1	4.5
30	80223.0	76023.0	84422.0	5.2	1.2	4.3
35	64759.0	61222.0	68296.0	5.5	1.3	4.2
40	52589.0	49600.0	55578.0	5.7	1.4	4.1
45	42951.0	40418.0	45484.0	5.9	1.5	4.0
50	35272.0	33119.0	37426.0	6.1	1.6	3.9
55	29119.0	27282.0	30956.0	6.3	1.7	3.8
60	24161.0	22589.0	25732.0	6.5	1.8	3.7
65	20144.0	18796.0	21493.0	6.7	1.9	3.6
70	16874.0	15713.0	18035.0	6.9	2.0	3.5
75	14198.0	13196.0	15201.0	7.1	2.1	3.4
80	11998.0	11130.0	12867.0	7.2	2.2	3.3
85	10181.0	9427.2	10936.0	7.4	2.3	3.2
90	8674.4	8017.3	9331.5	7.6	2.4	3.2
95	7418.9	6844.9	7993.0	7.7	2.5	3.1
100	6368.8	5865.9	6871.7	7.9	2.6	3.0
105	5487.0	5045.3	5928.7	8.1	2.7	2.9
110	4743.7	4354.6	5132.7	8.2	2.9	2.9
115	4114.8	3771.3	4458.3	8.3	3.0	2.8
120	3580.8	3276.8	3884.9	8.5	3.1	2.7
125	3125.9	2856.1	3395.7	8.6	3.2	2.7
130	2737.0	2497.0	2977.0	8.8	3.3	2.6
135	2403.5	2189.6	2617.5	8.9	3.5	2.6
140	2116.7	1925.5	2307.8	9.0	3.6	2.5
145	1869.1	1697.9	2040.3	9.2	3.7	2.5
150	1654.9	1501.3	1808.6	9.3	3.9	2.4
155	1469.1	1330.9	1607.2	9.4	4.0	2.4
160	1307.3	1182.8	1431.8	9.5	4.1	2.3
165	1166.2	1053.7	1278.6	9.6	4.3	2.3
170	1042.7	941.0	1144.4	9.8	4.4	2.2
175	934.5	842.3	1026.7	9.9	4.5	2.2
180	839.3	755.6	923.0	10.0	4.7	2.1
185	755.4	679.3	831.6	10.1	4.8	2.1
190	681.4	611.9	750.8	10.2	5.0	2.0
195	615.8	552.4	679.2	10.3	5.1	2.0
200	557.6	499.7	615.6	10.4	5.3	2.0
205	505.9	452.9	559.0	10.5	5.4	1.9
210	459.9	411.2	508.6	10.6	5.6	1.9
215	418.8	374.0	463.5	10.7	5.8	1.9
220	382.0	340.8	423.2	10.8	5.9	1.8

Mechanical Dimensions (inches)

Side View



Top View



Part Number Configuration

PTS40- 1- 5K

Model _____ _____ _____
 (0= Custom ,1= Delphi connector) Connection _____ Ohm Value @25C(5k=5kohms, 25k=25kohm)

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