

Temperature Sensors

Description:

- Operating Temp -60°F to +300°F
- No moving parts or contacts
- Easy orientation
- Customized versions available
- Adapts to various configurations

Applications:

- Automotive
- Engine Speed
- Power Generation Turbines
- Turbochargers
- Transmission



SENSOR SPECIFICATIONS				TEST SPECIFICATIONS	
PULL TEST	CABLE PINS TO WITHSTAND A 2 LB PULL TEST.	HOUSING MATERIAL	303 S.S.	THERMAL TIME CONSTANT	10 SECONDS (NO POWER APPLIED)
INSULATION RESISTANCE	10 M OHMS	OVERALL LENGTH	0.87 in	POWER DISSIPATION	50 MW MAX (at T=25° C)
RESISTANCE VS TEMPERATURE	SEE TABLE 1	WIRE	22 AWG	DISSIPATION CONSTANT	1 MW / C (at T=25° C)
CABLE LENGTH	22.00 ± .50	MOUNTING THREAD SIZE	1/8-27 NPT	STORAGE TEMPERATURE	-60° F to 300° F
CONNECTOR	N/A	ZERO POWER RESISTANCE	50K OHMS ± 5% (at T=25° C) NO POWER APPLIED	OPERATING TEMPERATURE	-25° F to 300° F

TABLE 1

TEMP. ° C	Ω (NOM) OHM	TOLER. %
-40°	2,036,000	±5
-30°	1,039,000	
-20°	553,400	
-10°	306,200	
0°	175,500	
10°	103,900	
20°	63,360	
25°	50,000	
30°	39,710	
40°	25,530	
50°	16,800	±3
60°	11,297	
70°	7,751	
80°	5,418	
90°	3,854	
100°	2,786	±5
105°	2,383	
110°	2,045	
115°	1,762	
120°	1,523	
125°	1,320	
130°	1,149	
135°	1,002	
140°	877	
145°	770	
150°	678	

