THERMOMETRICS
A COMMITMENT TO EXCELLENCE
AN AMPHENOL COMPANY

Product Spotlight

RvT Pipeclip Temperature Sensor

Thermometrics JS9218 RvT Pipe Clip Temperature Sensor is available for any application which requires a fast responding, high sensitivity temperature measurement of fluids in a pipe. Utilizing a high performance NTC thermistor this sensor is designed to offer fast time response and withstand challenging automotive conditions.

Features

- High accuracy and long term stability.
- Thermal response time (T-63%) Oil to Oil ~ 6s
- Thermal response time on (T-63%) on pipe ~16s
- Operating temperature from -40°C to 150°C
- Connector type: 2 pin Customizable
- R v T curve: Wide range of NTC thermistors available
- B Value: Wide range of NTC thermistors available
- Pipe size OD: 12.7 / 18mm – Other sizes by request
- 30mm length – low profile
- Supplied with clip for instant secure installation
- RoHS compliant
- *Expected to meet AECQ200 qualification*
- UK built thermistor

Applications

- Automotive
- Industrial
- HVAC

Ordering Options	
Part Number	**Resistance @ 25°C**
JS9218	10k @ 25°C

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NTC Thermistor Resistance - Temperature Data

Thermistor resistance calculated from R / R25 = exp (A0 + A1/T + A2/T^2 + A3/T^3)
(T = Temperature in K = Temperature in °C + 273.15)

RvT Coefficients		Reference Point	
ID	Material [1]	Temperature °C	25
Temp min °C	-40	Resistance Ω	10000
Temp max °C	155	R Tolerance -%	1
A0	-1.420E+01		
A1	4.407E+03		
A2	-5.166E+03		
A3	-1.402E+07		
B tolerance ±%	0.75		

Temp. °C	R / R25	R nominal Ω	R minimum Ω	R maximum Ω	Resistance Tolerance - %	Resistance Tolerance + %	Temp. Tolerance + °C	Temp. Tolerance - °C	Alpha %/°C	B nominal K
-40	33.3562	333562.40	321653.63	345877.49	-3.6	3.7	0.5	-0.6	-6.60	3751
-30	17.6082	176081.50	170610.62	181709.63	-3.1	3.2	0.5	-0.5	-6.18	3781
-20	9.6807	96807.31	94221.29	99454.36	-2.7	2.7	0.5	-0.5	-5.79	3808
-10	5.5253	55252.84	54003.53	56525.40	-2.3	2.3	0.4	-0.4	-5.43	3832
0	3.2640	32639.86	32028.04	33260.04	-1.9	1.9	0.4	-0.4	-5.10	3854
10	1.9902	19901.65	19601.20	20204.69	-1.5	1.5	0.3	-0.3	-4.80	3873
20	1.2493	12493.34	12347.77	12639.36	-1.2	1.2	0.3	-0.3	-4.52	3891
25	1.0000	10000.00	9900.00	10100.00	-1.0	1.0	0.2	-0.2	-4.39	0
30	0.8056	8055.92	7962.44	8149.68	-1.2	1.2	0.3	-0.3	-4.26	3908
40	0.5325	5324.61	5246.50	5403.33	-1.5	1.5	0.4	-0.4	-4.02	3923
50	0.3601	3600.53	3537.32	3664.51	-1.8	1.8	0.5	-0.5	-3.80	3937
60	0.2487	2486.57	2436.14	2537.78	-2.0	2.1	0.6	-0.6	-3.60	3950
70	0.1751	1751.07	1711.05	1791.84	-2.3	2.3	0.7	-0.7	-3.41	3961
80	0.1256	1255.60	1223.85	1288.05	-2.5	2.6	0.8	-0.8	-3.24	3972
90	0.0916	915.55	890.28	941.43	-2.8	2.8	0.9	-0.9	-3.08	3982
100	0.0678	678.07	657.87	698.81	-3.0	3.1	1.0	-1.0	-2.93	3992
110	0.0510	509.52	493.28	526.23	-3.2	3.3	1.1	-1.2	-2.79	4001
120	0.0388	388.06	374.93	401.61	-3.4	3.5	1.3	-1.3	-2.66	4009
130	0.0299	299.31	288.62	310.36	-3.6	3.7	1.4	-1.5	-2.54	4017
140	0.0234	233.58	224.82	242.66	-3.8	3.9	1.5	-1.6	-2.42	4024
150	0.0184	184.31	177.08	191.81	-3.9	4.1	1.7	-1.8	-2.32	4031

1. Data for information only. Please contact Amphenol to confirm specifications.

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