YSI PRECISION THERMISTOR

Part #44005

RESISTANCE 3000 OHMS AT 25°C

TIME CONSTANT[1] . 1[2] sec. max., 10[3] sec. max.

DISSIPATION CONSTANT[4] . . . . 8[2] mw/°C., 1[3] mw/°C.

COLOR CODE . . . Black epoxy on body of thermistor with green end

MAXIMUM OPERATING TEMPERATURE 150°C

Use heat sinks (needle nose pliers, etc.) when soldering or welding to thermistor leads.

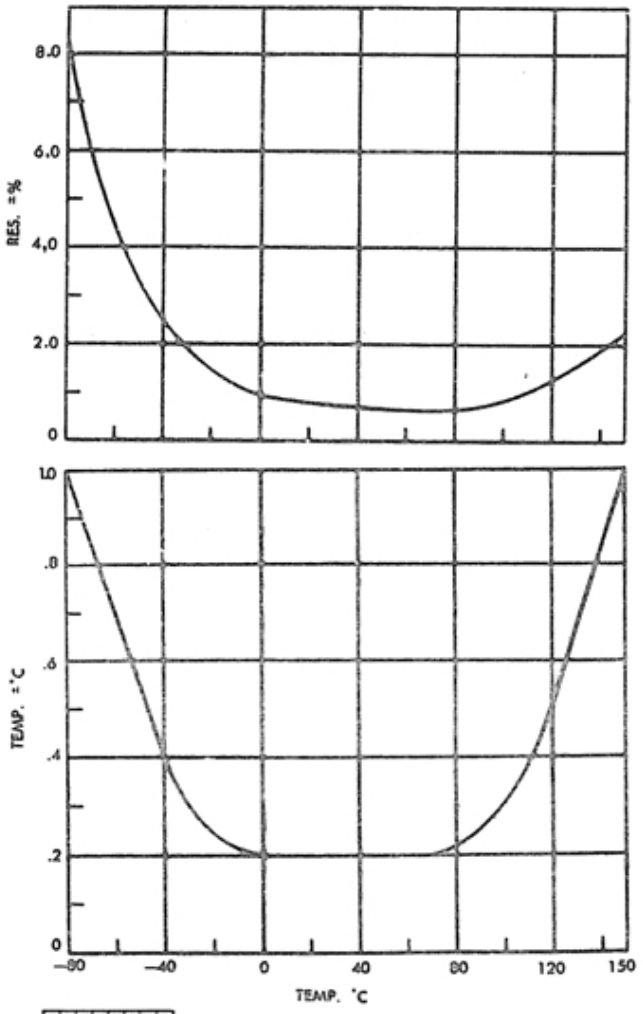
[1]Time constant is the time required for the thermistor to indicate 63% of a new impressed temperature.

[2]Values determined with thermistor suspended by its leads in a "well stirred" oil bath.

[3]Values determined with thermistor suspended by its leads in still air.

[4]The dissipation constant is the amount of power in milliwatts required to raise the thermistor 1°C above the surrounding temperature.

TOLERANCES



YSI COMPONENTS DIVISION
P. O. BOX 279,
YELLOW SPRINGS, OHIO 45387

RESISTANCE VERSUS TEMPERATURE -80° to +150°

TEMP°C	RES	TEMP°C	RES	TEMP°C	RES	TEMP°C	RES	TEMP°C	RES	TEMP°C	RES	TEMP°C	RES	TEMP°C	RES
-80	2211K	-50	201.1K	-20	29.13K	+10	5971	+40	1598	+70	525.4	+100	203.8	+130	90.2
79	2022K	49	187.3K	19	27.49K	11	5692	41	1535	71	507.8	101	197.9	131	87.9
78	1851K	48	174.5K	18	25.95K	12	5427	42	1475	72	490.9	102	192.2	132	85.7
77	1696K	47	162.7K	17	24.51K	13	5177	43	1418	73	474.7	103	186.8	133	83.6
76	1555K	46	151.7K	16	23.16K	14	4939	44	1363	74	459.0	104	181.5	134	81.6
75	1426K	45	141.6K	15	21.89K	15	4714	45	1310	75	444.0	105	176.4	135	79.6
74	1309K	44	132.2K	14	20.70K	16	4500	46	1260	76	429.5	106	171.4	136	77.6
73	1202K	43	123.5K	13	19.58K	17	4297	47	1212	77	415.6	107	166.7	137	75.8
72	1105K	42	115.4K	12	18.52K	18	4105	48	1167	78	402.2	108	162.0	138	73.9
71	1016K	41	107.9K	11	17.53K	19	3922	49	1123	79	389.3	109	157.6	139	72.2
-70	935.4K	-40	101.0K	-10	16.60K	+20	3748	+50	1081	+80	376.9	+110	153.2	+140	70.4
69	861.4K	39	94.48K	9	15.72K	21	3583	51	1040	81	364.9	111	149.0	141	8.8
68	793.7K	38	88.46K	8	14.90K	22	3426	52	1002	82	353.4	112	145.0	142	67.1
67	731.8K	37	82.87K	7	14.12K	23	3277	53	965.0	83	342.2	113	141.1	143	65.5
66	675.2K	36	77.66K	6	13.39K	24	3135	54	929.6	84	331.5	114	137.2	144	64.0
65	623.3K	35	72.81K	5	12.70K	25	3000	55	895.8	85	321.2	115	133.6	145	62.5
64	575.7K	34	68.30K	4	12.05K	26	2872	56	863.3	86	311.3	116	130.0	146	61.1
63	532.1K	33	64.09K	3	11.44K	27	2750	57	832.2	87	301.7	117	126.5	147	59.6
62	492.1K	32	60.17K	2	10.86K	28	2633	58	802.3	88	292.4	118	123.2	148	58.3
61	455.3K	31	56.51K	-1	10.31K	29	2523	59	773.7	89	283.5	119	119.9	149	56.9
-60	421.5K	-30	53.10K	0	9796	+30	2417	+60	746.3	+90	274.9	+120	116.8	+150	55.6
59	390.5K	29	49.91K	+1	9310	31	2317	61	719.9	91	266.6	121	113.8		
58	361.9K	28	46.94K	2	8851	32	2221	62	694.7	92	258.6	122	110.8		
57	335.7K	27	44.16K	3	8417	33	2130	63	670.4	93	250.9	123	107.9		
56	311.5K	26	41.56K	4	8006	34	2042	64	647.1	94	243.4	124	105.2		
55	289.2K	25	39.13K	5	7618	35	1959	65	624.7	95	236.2	125	102.5		
54	268.6K	24	36.86K	6	7252	36	1880	66	603.3	96	229.3	126	99.9		
53	249.7K	23	34.73K	7	6905	37	1805	67	582.6	97	222.6	127	97.3		
52	232.2K	22	32.74K	8	6576	38	1733	68	562.8	98	216.1	128	94.9		
51	216.0K	21	30.87K	9	6265	+39	1664	69	543.7	99	209.8	129	92.5		

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