

MODEL TS165 THERMISTOR SENSOR PROBES

Thermistor is a generic term describing a semiconductor device that exhibits an electrical conductivity that is highly sensitive to temperature. These devices may be either positive temperature coefficient (PTC) or negative temperature coefficient (NTC) with respect to their resistance characteristics with temperature.

Oven Industries' Model TS165 thermistor sensors have an NTC type resistance versus temperature characteristic. In addition, they have a matched resistance versus temperature curve and are interchangeable from one thermistor to another per the specified tolerance.

See reverse side for mechanical configuration and dimension



Thermistor Specifications:

Base Resistance at 25°C: 231.5K W

Interchangeable Tolerance: ±1.0°C over a 100°C to 200°C temperature range
±1.5°C over 25°C to 250°C temperature range

TEMPERATURE (°C) VS. RESISTANCE (Ω) Chart

25.0	231438.2	63.0	47245.8	101.0	12686.2	139.0	4208.7	177.0	1648.6	215.0	737.3
26.0	221032.6	64.0	45493.6	102.0	12292.7	140.0	4098.2	178.0	1611.5	216.0	723.0
27.0	211147.1	65.0	43814.6	103.0	11913.0	141.0	3991.0	179.0	1575.4	217.0	709.0
28.0	201753.2	66.0	42205.4	104.0	11546.8	142.0	3887.0	180.0	1540.3	218.0	695.3
29.0	192824.2	67.0	40662.8	105.0	11193.4	143.0	3786.2	181.0	1506.1	219.0	681.9
30.0	184334.8	68.0	39183.7	106.0	10852.3	144.0	3688.3	182.0	1472.7	220.0	668.9
31.0	176261.5	69.0	37765.4	107.0	10523.1	145.0	3593.5	183.0	1440.2	221.0	656.1
32.0	168581.8	70.0	36404.9	108.0	10205.4	146.0	3501.4	184.0	1408.6	222.0	643.6
33.0	161274.8	71.0	35099.7	109.0	9898.6	147.0	3412.1	185.0	1377.8	223.0	631.4
34.0	154320.7	72.0	33847.4	110.0	9602.3	148.0	3325.4	186.0	1347.8	224.0	619.5
35.0	147700.8	73.0	32645.5	111.0	9316.3	149.0	3241.3	187.0	1318.5	225.0	607.9
36.0	141397.6	74.0	31491.9	112.0	9039.9	150.0	3159.6	188.0	1290.0	226.0	596.5
37.0	135394.3	75.0	30384.2	113.0	8773.0	151.0	3080.3	189.0	1262.2	227.0	585.3
38.0	129675.4	76.0	29320.7	114.0	8515.0	152.0	3003.4	190.0	1235.1	228.0	574.4
39.0	124226.1	77.0	28299.2	115.0	8265.8	153.0	2928.6	191.0	1208.7	229.0	563.8
40.0	119032.5	78.0	27318.0	116.0	8024.9	154.0	2856.1	192.0	1183.0	230.0	553.4
41.0	114081.4	79.0	26375.3	117.0	7792.1	155.0	2785.6	193.0	1157.9	231.0	543.2
42.0	109360.3	80.0	25469.4	118.0	7567.0	156.0	2717.1	194.0	1133.4	232.0	533.2
43.0	104857.6	81.0	24598.7	119.0	7349.4	157.0	2650.6	195.0	1109.6	233.0	523.5
44.0	100562.2	82.0	23761.8	120.0	7139.0	158.0	2586.0	196.0	1086.3	234.0	514.0
45.0	96463.6	83.0	22957.1	121.0	6935.4	159.0	2523.2	197.0	1063.6	235.0	504.7
46.0	92551.8	84.0	22183.3	122.0	6738.6	160.0	2462.2	198.0	1041.5	236.0	495.5
47.0	88817.6	85.0	21439.1	123.0	6548.2	161.0	2402.9	199.0	1019.9	237.0	486.6
48.0	85252.0	86.0	20723.2	124.0	6363.9	162.0	2345.3	200.0	998.8	238.0	477.9
49.0	81846.8	87.0	20034.4	125.0	6185.6	163.0	2289.3	201.0	978.3	239.0	469.3
50.0	78593.9	88.0	19371.6	126.0	6013.1	164.0	2234.8	202.0	958.2	240.0	461.0
51.0	75485.9	89.0	18733.7	127.0	5846.1	165.0	2181.9	203.0	938.7	241.0	452.8
52.0	72515.7	90.0	18119.7	128.0	5684.4	166.0	2130.4	204.0	919.6	242.0	444.8
53.0	69676.6	91.0	17528.5	129.0	5527.9	167.0	2080.3	205.0	901.0	243.0	437.0
54.0	66962.1	92.0	16959.3	130.0	5376.3	168.0	2031.6	206.0	882.8	244.0	429.3
55.0	64366.4	93.0	16411.1	131.0	5229.6	169.0	1984.3	207.0	865.0	245.0	421.8
56.0	61883.6	94.0	15883.0	132.0	5087.4	170.0	1938.2	208.0	847.7	246.0	414.4
57.0	59508.3	95.0	15374.3	133.0	4949.7	171.0	1893.4	209.0	830.8	247.0	407.2
58.0	57235.5	96.0	14884.1	134.0	4816.3	172.0	1849.8	210.0	814.3	248.0	400.2
59.0	55060.2	97.0	14411.7	135.0	4687.1	173.0	1807.3	211.0	798.1	249.0	393.3
60.0	52977.8	98.0	13956.4	136.0	4561.8	174.0	1766.0	212.0	782.4	250.0	386.5
61.0	50984.1	99.0	13517.5	137.0	4440.4	175.0	1725.8	213.0	767.0		
62.0	49074.7	100.0	13094.3	138.0	4322.8	176.0	1686.7	214.0	752.0		



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TS165-64

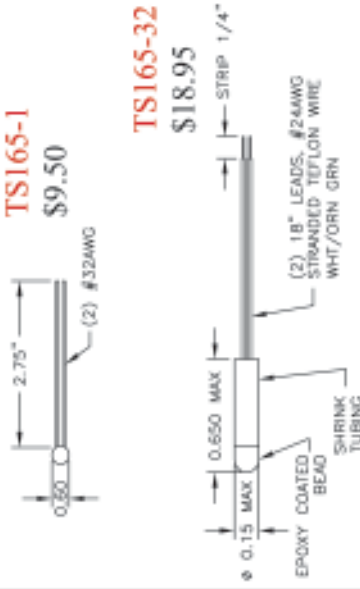


TS165-138

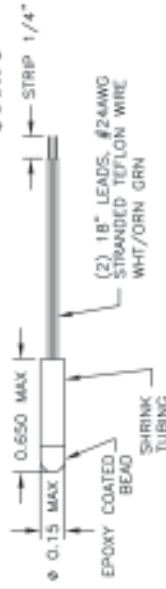


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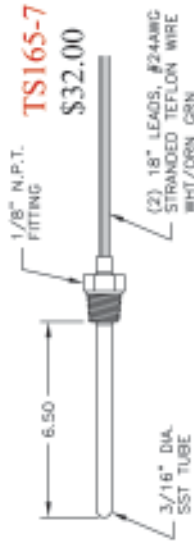
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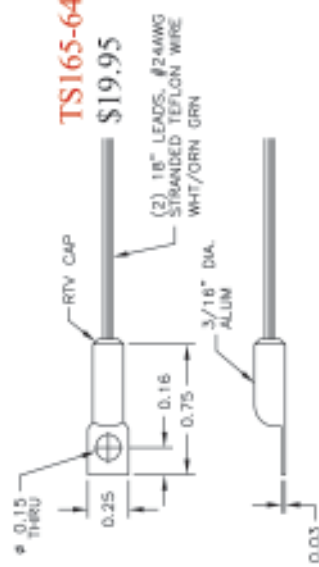
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TS165-7
\$32.00



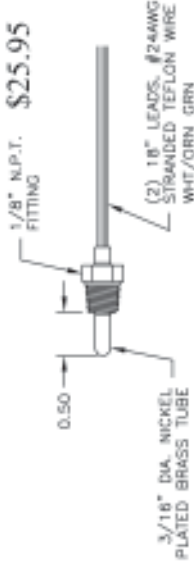
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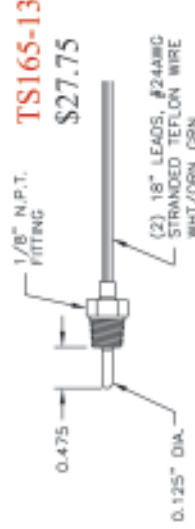
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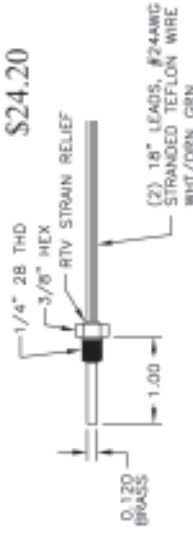
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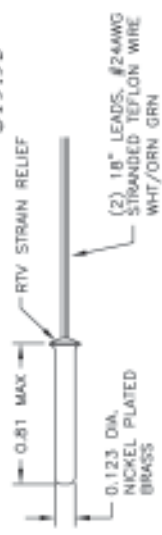
TS165-138
\$27.75



TS165-154
\$24.20



TS165-176
\$19.95



TS165-188
\$21.00

