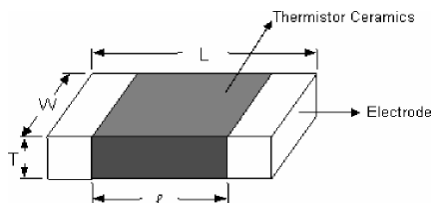


## TSM Series SMD NTC Thermistors

The TSM series is available in 4 sizes with a wide range of resistance values and tolerances. Suitable for battery packs, mobile phones, LCD displays, TCXOs and numerous other applications where temperature has to be either controlled, monitored or compensated.



Part no.	Size	L	W	T max.	l min.
TSM0	0402	1.00±0.15	0.50±0.10	0.60	0.2
TSM1	0603	1.60±0.15	0.80±0.15	0.95	0.3
TSM2	0805	2.00±0.20	1.25±0.20	1.20	0.4
TSM3	1206	3.20±0.30	1.60±0.20	1.50	0.5

Part no.	Zero power resistance at 25°C	Tolerance of resistance (±%)	B25/85 Value (K)	Tolerance of B value (±%)	Max. power rating at 25°C P <sub>max</sub> (mW)	Thermal dissipation constant δ(mW/°C)	Thermal time constant T <sub>c</sub> (s)	Operating temperature range (°C)	Format						
	R25 (kΩ)								EIA Size						
103TSM0A-#P	10	1, 2, 3, 5	3435	1-3	170	1.7	2	-40~+125	0402						
103TSM0B-#P	10		3950						0402						
223TSM0A-#P	22		3950						0402						
333TSM0A-#P	33		3950						0402						
473TSM0A-#P	47		3950						0402						
503TSM0A-#P	50		3950						0402						
683TSM0A-#P	68		4050						0402						
104TSM0A-#P	100		3975						0402						
202TSM1A-#P	2		1, 2, 3, 5						3400	1-3	210	2.1	3.1	-40~+125	0603
472TSM1A-#P	4.7								3435						0603
502TSM1A-#P	5	3435		0603											
682TSM1A-#P	6.8	3435		0603											
103TSM1A-#P	10	3435		0603											
103TSM1B-#P	10	3975		0603											
223TSM1A-#P	22	3975		0603											
333TSM1A-#P	33	3975		0603											
473TSM1A-#P	47	3975		0603											
503TSM1A-#P	50	3975		0603											
683TSM1A-#P	68	3975		0603											
104TSM1A-#P	100	4050		0603											
204TSM1A-#P	200	4100		0603											
224TSM1A-#P	220	4100		0603											
334TSM1A-#P	330	4150		0603											
472TSM2A-#P	4.7	1, 2, 3, 5	3435	1-3	240	2.4	5.4	-40~+125	0805						
502TSM2A-#P	5		3435						0805						
103TSM2A-#P	10		3435						0805						
103TSM2B-#P	10		3975						0805						
223TSM2A-#P	22		3975						0805						
473TSM2A-#P	47		3975						0805						
503TSM2A-#P	50		3975						0805						
683TSM2A-#P	68		3975						0805						
104TSM2A-#P	100		4050						0805						
204TSM2A-#P	200		4100						0805						
224TSM2A-#P	220		4100						0805						
472TSM3A-#P	4.7		1, 2, 3, 5						3435	1-3	320	3.2	6.7	-40~+125	1206
502TSM3A-#P	5								3435						1206
103TSM3A-#P	10								3435						1206
103TSM3B-#P	10								3975						1206
223TSM3A-#P	22	3975		1206											
473TSM3A-#P	47	3975		1206											
503TSM3A-#P	50	3975		1206											
683TSM3A-#P	68	3975		1206											
104TSM3A-#P	100	4050		1206											
204TSM3A-#P	200	4100		1206											
224TSM3A-#P	220	4100		1206											
474TSM3A-#P	470	4250		1206											

Note 1: # = Resistance (R25) Tolerance. 1 = 1%, 2 = 2%, etc.