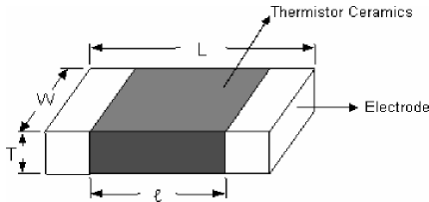


## ATC SM Series SMD NTC Thermistors

ATC SM series SMD NTCs are 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 closely controlled, compensated for or monitored.



Part no.	Size	L	W	T max.	l min.
SM0	0402	1.00±0.15	0.50±0.10	0.60	0.2
SM1	0603	1.60±0.15	0.80±0.15	0.95	0.3
SM2	0805	2.00±0.20	1.25±0.20	1.20	0.4
SM3	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	Tolerance of B value	Max. power rating at 25°C	Thermal dissipation constant	Thermal time constant	Operating temperature range	Format						
	R25 (kΩ)	(±%)	(K)	(±%)	P <sub>max</sub> (mW)	δ(mW/°C)	T <sub>c</sub> (s)	(°C)	EIA Size						
103SM0A-#P	10	1, 2, 3, 5	3435	1, 2, 3	170	1.7	2	-40~+125	0402						
103SM0B-#P	10		3950						0402						
223SM0A-#P	22		3950						0402						
333SM0A-#P	33		3950						0402						
473SM0A-#P	47		3950						0402						
503SM0A-#P	50		3950						0402						
683SM0A-#P	68		4050						0402						
104SM0A-#P	100		3975						0402						
202SM1A-#P	2		1, 2, 3, 5						3400	1, 2, 3	210	2.1	3.1	-40~+125	0603
472SM1A-#P	4.7								3435						0603
502SM1A-#P	5	3435		0603											
682SM1A-#P	6.8	3435		0603											
103SM1A-#P	10	3435		0603											
103SM1B-#P	10	3975		0603											
223SM1A-#P	22	3975		0603											
333SM1A-#P	33	3975		0603											
473SM1A-#P	47	3975		0603											
503SM1A-#P	50	3975		0603											
683SM1A-#P	68	3975		0603											
104SM1A-#P	100	4050		0603											
204SM1A-#P	200	4100		0603											
224SM1A-#P	220	4100		0603											
334SM1A-#P	330	4150		0603											
472SM2A-#P	4.7	1, 2, 3, 5	3435	1, 2, 3	240	2.4	5.4	-40~+125	0805						
502SM2A-#P	5		3435						0805						
103SM2A-#P	10		3435						0805						
103SM2B-#P	10		3975						0805						
223SM2A-#P	22		3975						0805						
473SM2A-#P	47		3975						0805						
503SM2A-#P	50		3975						0805						
683SM2A-#P	68		3975						0805						
104SM2A-#P	100		4050						0805						
204SM2A-#P	200		4100						0805						
224SM2A-#P	220		4100						0805						
472SM3A-#P	4.7		1, 2, 3, 5						3435	1, 2, 3	320	3.2	6.7	-40~+125	1206
502SM3A-#P	5								3435						1206
103SM3A-#P	10								3435						1206
103SM3B-#P	10								3975						1206
223SM3A-#P	22	3975		1206											
473SM3A-#P	47	3975		1206											
503SM3A-#P	50	3975		1206											
683SM3A-#P	68	3975		1206											
104SM3A-#P	100	4050		1206											
204SM3A-#P	200	4100		1206											
224SM3A-#P	220	4100		1206											
474SM3A-#P	470	4250		1206											

Note 1: # = Resistance (R25) Tolerance. 1 = 1%, 2 = 2%, 3 = 3%, 5 = 5%