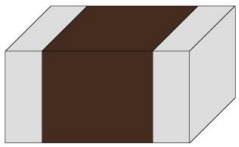
Chip NTC Thermistor – ATMNT Series

Operating Temp. : -55℃~+125℃

FEATURES

- SMD type suitable for high density mounting
- Series of B constant for various applications
- Excellent solderability



APPLICATIONS

- Telecommunication equipments such as cellular phone, automobile phone, cordless phone, etc
- Office automation such as printer, facsimile, word processor, etc.
- Consumer electronics such as VCR, DVD, CD players, etc.

PRODUCT IDENTIFICATION

ATMNT	1608	R	103	S	3950	S
①	②	③	④	⑤	⑥	⑦

①

Type	
ATMNT	Chip NTC Thermistor

②

External Dimensions (L×W) (mm)	
1005 [0402]	1.0×0.5
1608 [0603]	1.6×0.8
2012 [0805]	2.0×1.25

③

Internal Code
R

④

Zero-power Resistance	
Example	Nominal Value
101	0.1kΩ
103	10kΩ

⑤

Tolerance of Resistance	
S	±1%
V	±3%
F	±5%
W	±10%

⑥

B Constant (25-50℃)	
Example	Nominal Value
3380	3380K
4250	4250K

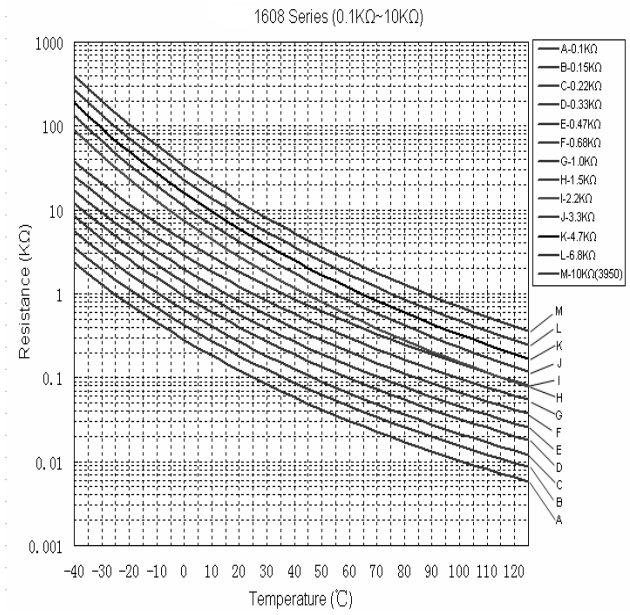
⑦

Tolerance of B Constant	
S	±1%
V	±3%

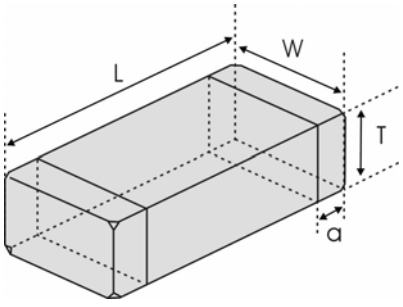
SPECIFICATIONS

	Resistance at 25 ℃	B constant (25 － 50 ℃)	Max. Permissive Operating Current (25 ℃)	Thermal Time Constant	Dissipation Factor	Rated Electric Power
Units	kΩ	K	mA	sec	mW/℃	Mw
Symbol	R25	B25/50	Imax	t	C	P
ATMNT1608R103S3950S	10	3950	0.33	<5sec	1.0	100

TYPICAL ELECTRICAL CHARACTERISTICS



SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a
ATMNT1608 [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.3±0.2 [.012±.008]

ATMNT1608R103S3950S R-T

温度(℃)	25℃阻值(KΩ)	B值	阻值(KΩ)	温度(℃)	25℃阻值(KΩ)	B值	阻值(KΩ)	温度(℃)	25℃阻值(KΩ)	B值	阻值(KΩ)	温度(℃)	25℃阻值(KΩ)	B值	阻值(KΩ)
-30	10	3950	187.44	8	10	3950	22.13	46	10	3950	4.17	84	10	3950	1.10
-29	10	3950	175.84	9	10	3950	21.07	47	10	3950	4.01	85	10	3950	1.06
-28	10	3950	165.04	10	10	3950	20.07	48	10	3950	3.86	86	10	3950	1.03
-27	10	3950	154.97	11	10	3950	19.12	49	10	3950	3.72	87	10	3950	1.00
-26	10	3950	145.59	12	10	3950	18.22	50	10	3950	3.58	88	10	3950	0.97
-25	10	3950	136.83	13	10	3950	17.36	51	10	3950	3.44	89	10	3950	0.94
-24	10	3950	128.66	14	10	3950	16.56	52	10	3950	3.32	90	10	3950	0.91
-23	10	3950	121.03	15	10	3950	15.79	53	10	3950	3.19	91	10	3950	0.88
-22	10	3950	113.91	16	10	3950	15.07	54	10	3950	3.08	92	10	3950	0.85
-21	10	3950	107.24	17	10	3950	14.38	55	10	3950	2.96	93	10	3950	0.83
-20	10	3950	101.02	18	10	3950	13.73	56	10	3950	2.86	94	10	3950	0.80
-19	10	3950	95.19	19	10	3950	13.11	57	10	3950	2.75	95	10	3950	0.78
-18	10	3950	89.74	20	10	3950	12.52	58	10	3950	2.65	96	10	3950	0.76
-17	10	3950	84.63	21	10	3950	11.96	59	10	3950	2.56	97	10	3950	0.74
-16	10	3950	79.85	22	10	3950	11.44	60	10	3950	2.47	98	10	3950	0.71
-15	10	3950	75.37	23	10	3950	10.93	61	10	3950	2.38	99	10	3950	0.69
-14	10	3950	71.17	24	10	3950	10.45	62	10	3950	2.30	100	10	3950	0.67
-13	10	3950	67.22	25	10	3950	10.00	63	10	3950	2.22	101	10	3950	0.65
-12	10	3950	63.53	26	10	3950	9.57	64	10	3950	2.14	102	10	3950	0.64
-11	10	3950	60.06	27	10	3950	9.16	65	10	3950	2.07	103	10	3950	0.62
-10	10	3950	56.80	28	10	3950	8.77	66	10	3950	1.99	104	10	3950	0.60
-9	10	3950	53.74	29	10	3950	8.39	67	10	3950	1.93	105	10	3950	0.58
-8	10	3950	50.86	30	10	3950	8.04	68	10	3950	1.86	106	10	3950	0.57
-7	10	3950	48.15	31	10	3950	7.70	69	10	3950	1.80	107	10	3950	0.55
-6	10	3950	45.61	32	10	3950	7.38	70	10	3950	1.74	108	10	3950	0.54
-5	10	3950	43.22	33	10	3950	7.08	71	10	3950	1.68	109	10	3950	0.52
-4	10	3950	40.96	34	10	3950	6.79	72	10	3950	1.62	110	10	3950	0.51
-3	10	3950	38.84	35	10	3950	6.51	73	10	3950	1.57	111	10	3950	0.49
-2	10	3950	36.84	36	10	3950	6.24	74	10	3950	1.52	112	10	3950	0.48
-1	10	3950	34.96	37	10	3950	5.99	75	10	3950	1.47	113	10	3950	0.47
0	10	3950	33.18	38	10	3950	5.75	76	10	3950	1.42	114	10	3950	0.45
1	10	3950	31.51	39	10	3950	5.52	77	10	3950	1.37	115	10	3950	0.44
2	10	3950	29.93	40	10	3950	5.30	78	10	3950	1.33	116	10	3950	0.43
3	10	3950	28.44	41	10	3950	5.09	79	10	3950	1.29	117	10	3950	0.42
4	10	3950	27.03	42	10	3950	4.89	80	10	3950	1.25	118	10	3950	0.41
5	10	3950	25.70	43	10	3950	4.70	81	10	3950	1.21	119	10	3950	0.40
6	10	3950	24.44	44	10	3950	4.52	82	10	3950	1.17	120	10	3950	0.39
7	10	3950	23.25	45	10	3950	4.34	83	10	3950	1.13	125	10	3950	0.34