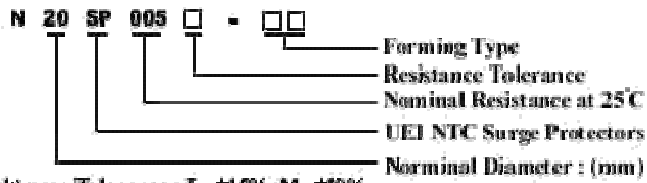
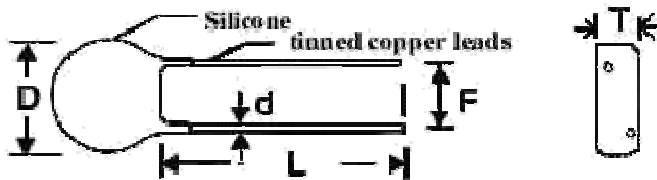


NTC Thermistors **SP Series** Surge Protectors / Inrush Current Limiters



Configuration and Dimensions

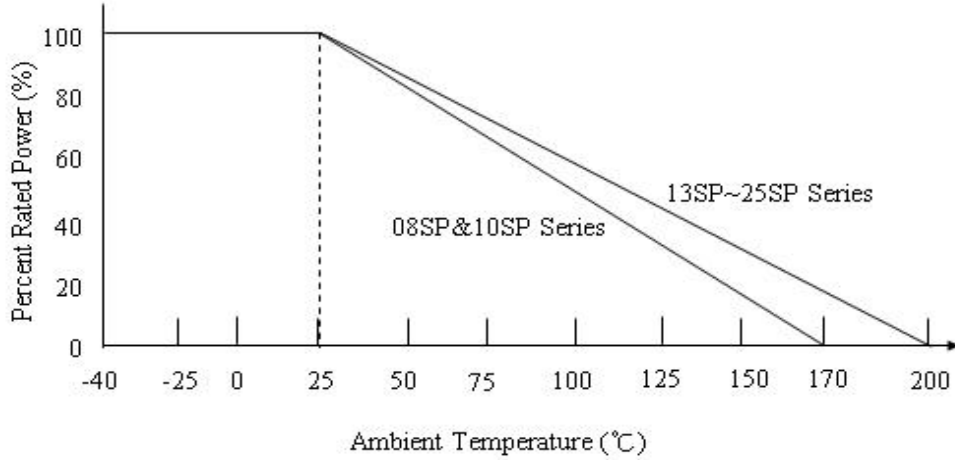
Part number code



DiscΦ	Dmax	Lmin	d	F	Tmax
8	9.5	25	0.8±0.02	5.0±1.0	5.0
10	11.5	25	0.8±0.02	5.0±1.0	5.0
13	15.0	25	1.0±0.02	7.5±1.0	6.0
15	17.0	25	1.0±0.02	7.5±1.0	6.0
20	22.0	25	1.0±0.02	7.5±1.0	6.0
25	25.0	25	1.0±0.02	7.5±1.0	6.0
30	27.0	25	1.0±0.02	7.5±1.0	6.0

Specifications Unit : mm

DERATING CURVE OF SP SERIES



Nominal Diameter(mm)	Part No.	Zero power Resistance at 25°C (Ohms)	Max Steady State Current(Amps)	Thermal Dissipation Constant(mW/°C)	Thermal Time Constant(Sec.)	Operating temperature range (°C)
8	08SP003	3	3	12	48	-40~+170
	08SP004	4	3	12	45	
	08SP005	5	3	9	48	
	08SP006	6	3	9	45	
	08SP008	8	3	9	45	
	08SP010	10	3	9	45	
	08SP015	15	2	12	45	
	08SP020	20	2	12	45	
	08SP022	22	2	12	45	
	08SP033	33	2	12	45	
10	N10SP001	1	5	17	65	-40~+170
	N10SP1R3	1.3	5	17	63	
	N10SP1R5	1.5	5	15	60	
	N10SP002	2	5	12	55	
	N10SP2R5	2.5	5	11	58	
	N10SP003	3	5	11	60	
	N10SP004	4	4	10	62	

	N10SP005	5	4	10	58	
	N10SP006	6	3	10	59	
	N10SP007	7	3	13	60	
	N10SP008	8	3	12	59	
	N10SP010	10	3	12	56	
	N10SP012	12	2	11	58	
	N10SP015	15	2	11	62	
	N10SP016	16	2	11	62	
	N10SP020	20	2	12	60	
	N10SP025	25	2	12	56	
	N10SP050	50	2	10	58	
	N10SP080	80	1	10	55	
	N10SP120	120	1	10	60	
	N13SP1R3	1.3	7	15	91	
	N13SP1R5	1.5	7	15	92	
	N13SP2R5	2.5	6	16	85	
	N13SP003	3	5	16	93	
	N13SP004	4	5	16	91	
	N13SP005	5	5	17	93	
	N13SP006	6	3	10	59	
	N13SP007	7	3	13	60	
	N13SP008	8	4	15	91	
	N13SP010	10	4	14	87	
	N13SP012	12	4	18	82	
	N13SP016	16	3	15	87	
	N13SP018	18	3	15	92	
	N13SP020	20	3	17	93	
13						-40~+200
	N15SP1R3	1.3	8	20	107	
	N15SP1R5	1.5	8	19	107	
	N15SP2R5	2.5	8	20	104	
	N15SP003	3	7	20	105	
	N15SP004	4	6	18	104	
	N15SP005	5	6	20	110	
	N15SP006	6	5	20	102	
	N15SP007	7	5	21	99	
15						-40~+200

	N15SP008	8	5	15	103	
	N15SP010	10	5	19	103	
	N15SP012	12	4	21	102	
	N15SP015	15	4	17	101	
	N15SP016	16	4	22	102	
	N15SP020	20	4	20	101	
	N15SP022	22	4	17	107	
	N15SP025	25	3	21	100	
	N15SP040	40	3	20	101	
	N15SP047	47	3	21	102	
	N15SP055	55	3	21	102	
	N15SP080	80	2.5	22	102	
	N15SP120	120	2	20	104	
	N20SP0R7	0.7	12	25	145	
	N20SP001	1	10	28	160	
	N20SP1R3	1.3	8	24	144	
	N20SP002	2	8	21	140	
	N20SP2R5	2.5	8	23	120	
	N20SP004	4	8	25	135	
	N20SP005	5	7	24	144	
	N20SP006	6	6	24	136	
	N20SP007	7	6	24	132	
	N20SP010	10	6	23	135	
	N20SP012	12	5	25	132	
	N20SP020	20	6	22	127	
	N20SP033	33	3	22	128	
	N20SP120	120	2	24	142	
20						-40~+200
	N25SP001	1	15	30	150	
	N25SP1R5	1.5	15	30	150	
	N25SP002	2	15	30	150	
	N25SP2R5	2.5	15	30	150	
	N25SP003	3	15	30	150	
	N25SP004	4	14	30	150	
	N25SP4R7	4.7	13	30	150	
	N25SP005	5	12	30	150	
25						-40~+200

N25SP6R8	6.8	10.5	30	150
N25SP007	7	10	30	150
N25SP008	8	9	30	150
N25SP010	10	8	30	150
N25SP012	12	7.5	30	150
N25SP015	15	6.5	30	150
N25SP018	18	5.5	30	150
N25SP020	20	5	30	150
N25S9120	120	3	30	150