

# Negative Temperature Coefficient Thermistor-PS Series (Silicone Resin Coating) Data Sheet

## Feature

■ Wide diameter range from  $\phi 5$  to  $\phi 25$

■ Operating Temperature




Style	Operating Temperature Range
$\phi 5$	$-40^{\circ}\text{C} \sim 155^{\circ}\text{C}$
$\phi 7, \phi 9, \phi 11$	$-40^{\circ}\text{C} \sim 175^{\circ}\text{C}$
$\phi 13, \phi 15, \phi 20, \phi 25$	$-40^{\circ}\text{C} \sim 200^{\circ}\text{C}$

■ Storage Temperature:  $15^{\circ}\text{C} \sim 35^{\circ}\text{C}$

## Applications

■ Suitable for power supply, electronic motors, transformers, adapters, projectors, halogen machines, LED drive circuits, etc.

## Applicable Standard

Approval	Organization	Safety Standards	Certificate No.
China 	CQC	GB/T 6663.1-2007	CQC19001213204
USA Canada 	UL	UL 1434	E474052
Germany 	VDE	EN60539-1:2017-01 EN60539-1: 2016	40050168

## Part Number Code

MF	05	100	X8	M	3	B	X7	C	S	B	0	0
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**Songtian**  
MF:NTC

**Zero Power Resistance**  
0R5:0.5Ω  
080:8Ω  
100:10Ω  
121:120Ω

**Tolerance**  
M:±20%

**Pitch**  
B:5.0mm  
E:7.5mm  
D:10.0mm

**Lead Material**  
C:Copper wire

**Package**  
B: Bulk  
T:Tape

**Inner Management**

**Core Diameter**  
05:5mm  
20:20mm

**Maximum Steady State Current**  
X1:0.1A  
S5:1.5A  
03:3.0A  
10:10A

**Foot Type**  
1:Long straight  
2:Outside Crimped  
3:Short Straight  
4:Inside kink lead  
8:Vertical Crimped

**Encapsulation material Environmental Standard**  
S:Silicone+RoHS  
F:Silicone +Halogen-Free

<p><b>Lead Length</b> S0~S9:1.0~1.9mm X0~X9:2.0~2.9mm A0~A9:3.0~3.9mm B0~B9:4.0~4.9mm C0~C9:5.0~5.9mm D0~D9:6.0~6.9mm E0~E9:7.0~7.9mm</p>	<p><b>Lead Length</b> F0~F9:8.0~8.9mm G0~G9:9.0~9.9mm H0~H9:10.0~10.9mm J0~J9:11.0~11.9mm K0~K9:12.0~12.9mm L0~L9:13.0~13.9mm M0~M9:14.0~14.9mm</p>	<p><b>Lead Length</b> M0~M9:14.0~14.9mm N0:16~27.0mm(Bulk) <b>Crimped Lead Taped</b> N0:H0=16.5mm P0:H0=17.0mm Q0:H0=19.0mm <b>Straight Lead</b> Q0:20.0mm</p>
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## Electrical Characteristics

### □D-5 Series

Part Number	Rated Zero Power Resistance @25°C (Ω)	Maximum Steady Current @25°C (A)	Residual Resistor At Maximum Steady Current @25°C (Ω)	B Value (K) ±10%	Thermal Time Constant (S)	Heat Dissipation Coefficient (mW/°C)	Operating Temperature Range (°C)
1.5D-5	1.5	1.8	0.13	2500	<20	>6	-40°C~155°C
2.5D-5	2.5	1.5	0.17	2500	<20	>6	-40°C~155°C
3D-5	3	1.5	0.19	2500	<20	>6	-40°C~155°C
5D-5	5	1	0.353	2500	<20	>6	-40°C~155°C
6D-5	6	1	0.395	2600	<20	>6	-40°C~155°C
7D-5	7	1	0.425	2600	<20	>6	-40°C~155°C
8D-5	8	0.8	0.675	2600	<20	>6	-40°C~155°C
10D-5	10	0.7	1.039	2600	<20	>6	-40°C~155°C
12D-5	12	0.6	1.25	2600	<20	>6	-40°C~155°C
15D-5	15	0.6	1.53	2600	<20	>6	-40°C~155°C
16D-5	16	0.6	1.605	2600	<20	>6	-40°C~155°C
18D-5	18	0.6	1.675	2600	<20	>6	-40°C~155°C
20D-5	20	0.5	1.853	2600	<20	>6	-40°C~155°C
22D-5	22	0.6	2.06	2600	<20	>6	-40°C~155°C
30D-5	30	0.4	2.227	2600	<20	>6	-40°C~155°C
33D-5	33	0.4	1.324	2600	<20	>6	-40°C~155°C
50D-5	50	0.4	2.653	2800	<18	>6	-40°C~155°C
60D-5	60	0.3	1.878	2800	<18	>6	-40°C~155°C
100D-5	100	0.3	2.852	3000	<18	>6	-40°C~155°C
200D-5	200	0.1	6.259	3200	<18	>6	-40°C~155°C
220D-5	220	0.1	6.859	3200	<18	>6	-40°C~155°C

**□D-7 Series**

Part Number	Rated Zero Power Resistance @25°C (Ω)	Maximum Steady Current @25°C (A)	Residual Resistor At Maximum Steady Current @25°C (Ω)	B Value (K) ±10%	Thermal Time Constant (S)	Heat Dissipation Coefficient (mW/°C)	Operating Temperature Range (°C)
0.7D-7	0.7	4.5	0.082	2600	<30	>10	-40°C~175°C
1D-7	1	4.5	0.12	2600	<30	>10	-40°C~175°C
1.3D-7	1.3	4.5	0.13	2600	<30	>10	-40°C~175°C
1.5D-7	1.5	4.5	0.16	2600	<30	>10	-40°C~175°C
2D-7	2	4	0.175	2600	<30	>10	-40°C~175°C
2.5D-7	2.5	4	0.19	2600	<30	>10	-40°C~175°C
3D-7	3	4	0.218	2600	<30	>10	-40°C~175°C
4D-7	4	3	0.441	2600	<30	>10	-40°C~175°C
4.5D-7	4.5	3	0.25	2600	<30	>10	-40°C~175°C
4.7D-7	4.7	3	0.27	2600	<30	>10	-40°C~175°C
5D-7	5	3	0.283	2600	<30	>10	-40°C~175°C
6D-7	6	2.5	0.305	2600	<28	>9	-40°C~175°C
6.8D-7	6.8	2.5	0.390	2600	<28	>9	-40°C~175°C
7D-7	7	2.5	0.425	2600	<28	>9	-40°C~175°C
8D-7	8	2.5	0.539	2600	<28	>9	-40°C~175°C
10D-7	10	2.5	0.616	2800	<28	>9	-40°C~175°C
12D-7	12	2	0.816	2800	<28	>9	-40°C~175°C
13D-7	13	2	0.905	2800	<28	>9	-40°C~175°C
14D-7	14	2	0.955	2800	<28	>9	-40°C~175°C
15D-7	15	2	1.003	2800	<28	>9	-40°C~175°C
16D-7	16	2	1.003	2800	<28	>9	-40°C~175°C
18D-7	18	2	1.055	2800	<28	>9	-40°C~175°C
20D-7	20	1.5	1.102	2800	<28	>9	-40°C~175°C
22D-7	22	1.5	1.108	2800	<28	>9	-40°C~175°C
25D-7	25	1.5	1.256	2800	<28	>9	-40°C~175°C
30D-7	30	1.5	3.7059	2800	<28	>11	-40°C~175°C
33D-7	33	1	1.485	2800	<28	>11	-40°C~175°C
40D-7	40	1	1.505	2800	<28	>11	-40°C~175°C
45D-7	45	1	1.585	2800	<28	>11	-40°C~175°C
47D-7	47	1	1.606	2800	<28	>11	-40°C~175°C
50D-7	50	1	1.653	2800	<28	>11	-40°C~175°C
60D-7	60	0.8	1.728	3000	<28	>11	-40°C~175°C
80D-7	80	0.8	2.536	3000	<28	>11	-40°C~175°C
100D-7	100	0.8	2.983	3000	<28	>11	-40°C~175°C
150D-7	150	0.3	11.65	3200	<28	>11	-40°C~175°C
200D-7	200	0.2	11.65	3200	<28	>11	-40°C~175°C

**□D-9 Series**

Part Number	Rated Zero Power Resistance @25°C (Ω)	Maximum Steady Current @25°C (A)	Residual Resistor At Maximum Steady Current @25°C (Ω)	B Value (K) ±10%	Thermal Time Constant (S)	Heat Dissipation Coefficient (mW/°C)	Operating Temperature Range (°C)
0.7D-9	0.7	6	0.062	2600	<35	>11	-40°C~175°C
1D-9	1	6	0.073	2600	<35	>11	-40°C~175°C
1.3D-9	1.3	6	0.095	2600	<35	>11	-40°C~175°C
1.5D-9	1.5	6	0.082	2600	<35	>11	-40°C~175°C
2D-5	2	5	0.096	2600	<35	>11	40°C~175°C
2.5D-9	2.5	5	0.113	2600	<35	>11	40°C~175°C
3D-9	3	5	0.120	2600	<35	>11	40°C~175°C
4D-9	4	4	0.190	2600	<35	>11	40°C~175°C
4.5D-9	4.5	4	0.195	2600	<34	>11	40°C~175°C
4.7D-9	4.7	4	0.20	2600	<34	>11	40°C~175°C
5D-9	5	4	0.210	2600	<34	>11	40°C~175°C
6D-9	6	4	0.315	2600	<34	>11	40°C~175°C
6.8D-9	6.8	3	0.323	2600	<34	>11	40°C~175°C
7D-9	7	3	0.3265	2800	<34	>11	40°C~175°C
8D-9	8	3	0.400	2800	<32	>11	40°C~175°C
10D-9	10	3	0.458	2800	<32	>11	40°C~175°C
12D-9	12	1	0.652	2800	<32	>11	40°C~175°C
13D-9	13	2.5	0.675	2800	<32	>11	40°C~175°C
14D-9	14	2.5	0.704	2800	<32	>11	40°C~175°C
15D-9	15	2.5	0.752	2800	<30	>11	40°C~175°C
16D-9	16	2.5	0.802	2800	<30	>11	40°C~175°C
18D-9	18	2.5	0.836	2800	<30	>11	40°C~175°C
20D-9	20	2	0.864	3000	<30	>11	40°C~175°C
22D-9	22	2	0.950	3000	<30	>11	40°C~175°C
25D-9	25	2	0.98	3000	<30	>11	40°C~175°C
30D-9	30	2	1.022	3000	<30	>11	40°C~175°C
33D-9	33	1.5	1.124	3000	<30	>11	40°C~175°C
35D-9	35	1.5	1.146	3000	<30	>11	40°C~175°C
40D-9	40	1.5	1.168	3200	<30	>11	40°C~175°C
45D-9	45	1.5	1.206	3200	<30	>11	40°C~175°C
47D-9	47	1.5	1.25	3200	<30	>11	40°C~175°C
50D-9	50	1.5	1.252	3200	<30	>11	40°C~175°C
60D-9	60	1.2	1.502	3200	<30	>11	40°C~175°C
80D-9	80	1.2	2.010	3200	<30	>11	40°C~175°C
120D-9	120	1.2	3.015	3200	<30	>11	40°C~175°C
200D-9	200	0.8	5.007	3400	<30	>11	-40°C~175°C

**□D-11 Series**

Part Number	Rated Zero Power Resistance @25°C (Ω)	Maximum Steady Current @25°C (A)	Residual Resistor At Maximum Steady Current @25°C (Ω)	B Value (K) ±10%	Thermal Time Constant (S)	Heat Dissipation Coefficient (mW/°C)	Operating Temperature Range (°C)
0.7D-11	0.7	5.5	0.04	2600	<43	>13	-40°C ~ 175°C
1D-11	1	5	0.052	2600	<43	>13	-40°C ~ 175°C
1.3D-11	1.3	5	0.06	2600	<43	>13	-40°C ~ 175°C
1.5D-11	1.5	5	0.065	2600	<43	>13	-40°C ~ 175°C
2D-11	2	5	0.085	2600	<43	>13	-40°C ~ 175°C
2.5D-11	2.5	5	0.095	2600	<43	>13	-40°C ~ 175°C
3D-11	3	5	0.100	2600	<43	>13	-40°C ~ 175°C
4D-11	4	4	0.150	2600	<44	>13	-40°C ~ 175°C
4.7D-11	4.7	4	0.155	2800	<44	>13	-40°C ~ 175°C
5D-11	5	4	0.156	2800	<45	>13	-40°C ~ 175°C
6D-11	6	3	0.240	2800	<45	>13	-40°C ~ 175°C
6.8D-11	6.8	3	0.245	2800	<45	>13	-40°C ~ 175°C
7D-11	7	3	0.2824	2800	<45	>13	-40°C ~ 175°C
8D-11	8	3	0.255	2800	<47	>14	-40°C ~ 175°C
10D-11	10	3	0.275	2800	<47	>14	-40°C ~ 175°C
12D-11	12	2	0.462	2800	<48	>14	-40°C ~ 175°C
13D-11	13	2	0.465	2800	<50	>14	-40°C ~ 175°C
15D-11	15	2	0.468	2800	<50	>14	-40°C ~ 175°C
16D-11	16	2	0.470	2800	<50	>14	-40°C ~ 175°C
20D-11	20	2	0.512	3000	<52	>15	-40°C ~ 175°C
22D-11	22	2	0.563	3000	<52	>15	-40°C ~ 175°C
25D-11	25	2	0.623	3000	<52	>15	-40°C ~ 175°C
30D-11	30	1.5	0.667	3000	<52	>15	-40°C ~ 175°C
33D-11	33	1.5	0.734	3000	<52	>15	-40°C ~ 175°C
47D-11	47	1.5	1.002	3200	<52	>15	-40°C ~ 175°C
50D-11	50	1.5	1.021	3200	<52	>15	-40°C ~ 175°C
60D-11	60	1.5	1.215	3200	<52	>15	-40°C ~ 175°C
80D-11	80	1.2	1.656	3200	<52	>15	-40°C ~ 175°C
100D-11	100	1.1	2.053	3000	<50	>15	-40°C ~ 175°C
120D-11	120	1.1	2.253	3000	<50	>15	-40°C ~ 175°C
200D-11	200	1	4.121	3200	<50	>13	-40°C ~ 175°C
400D-11	400	0.5	9.252	3200	<50	>13	-40°C ~ 175°C

## □D-13 Series

Part Number	Rated Zero Power Resistance @25°C (Ω)	Maximum Steady Current @25°C (A)	Residual Resistor At Maximum Steady Current @25°C (Ω)	B Value (K) ±10%	Thermal Time Constant (S)	Heat Dissipation Coefficient (mW/°C)	Operating Temperature Range (°C)
0.7D-13	0.7	7.5	0.045	2600	<60	>13	-40°C~200°C
1D-13	1	7	0.052	2600	<60	>13	-40°C~200°C
1.3D-13	1.3	7	0.062	2600	<60	>13	-40°C~200°C
1.5D-13	1.5	7	0.073	2600	<60	>13	-40°C~200°C
2.5D-13	2.5	6	0.088	2600	<60	>13	-40°C~200°C
3D-13	3	6	0.092	2600	<60	>14	-40°C~200°C
4D-13	4	5	0.120	2800	<67	>15	-40°C~200°C
4.7D-13	4.7	5	0.1469	2800	<67	>15	-40°C~200°C
5D-13	5	5	0.125	2800	<68	>15	-40°C~200°C
6D-13	6	4	0.170	2800	<65	>15	-40°C~200°C
7D-13	7	4	0.188	3000	<65	>15	-40°C~200°C
8D-13	8	4	0.194	3000	<60	>15	-40°C~200°C
10D-13	10	4	0.206	3000	<65	>15	-40°C~200°C
12D-13	12	3	0.316	3200	<65	>16	-40°C~200°C
15D-13	15	3	0.335	3200	<60	>16	-40°C~200°C
16D-13	16	3	0.338	3200	<60	>16	-40°C~200°C
18D-13	18	3	0.356	3200	<60	>16	-40°C~200°C
20D-13	20	3	0.372	3200	<65	>16	-40°C~200°C
22D-13	22	3	0.625	3200	<65	>16	-40°C~200°C
25D-13	25	2.5	0.422	3200	<65	>16	-40°C~200°C
30D-13	30	2.5	0.517	3200	<65	>16	-40°C~200°C
33D-13	33	2.5	0.592	3200	<65	>16	-40°C~200°C
47D-13	47	2	0.810	3200	<65	>17	-40°C~200°C
50D-13	50	2	1.161	3200	<65	>17	-40°C~200°C
60D-13	60	1.8	1.012	3200	<65	>17	-40°C~200°C
80D-13	80	1.5	1.856	3200	<65	>17	-40°C~200°C
120D-13	120	1.2	2.124	3400	<65	>17	-40°C~200°C

**□D-15 Series**

Part Number	Rated Zero Power Resistance @25°C (Ω)	Maximum Steady Current @25°C (A)	Residual Resistor At Maximum Steady Current @25°C (Ω)	B Value (K) ±10%	Thermal Time Constant (S)	Heat Dissipation Coefficient (mW/°C)	Operating Temperature Range (°C)
0.7D-15	0.7	9	0.035	2600	<69	>18	-40°C~200°C
1D-15	1	8	0.042	2600	<68	>18	-40°C~200°C
1.3D-15	1.3	8	0.048	2600	<68	>18	-40°C~200°C
1.5D-15	1.5	8	0.052	2600	<69	>18	-40°C~200°C
2D-15	2	8	0.062	2600	<69	>18	-40°C~200°C
2.5D-15	2.5	7	0.065	2800	<76	>18	-40°C~200°C
3D-15	3	7	0.075	2800	<76	>18	-40°C~200°C
3.3D-15	3.3	6.5	0.085	2800	<76	>18	-40°C~200°C
4D-15	4	6	0.1985	2800	<76	>18	-40°C~200°C
5D-15	5	6	0.112	3000	<76	>20	-40°C~200°C
6D-15	6	5	0.155	3000	<80	>20	-40°C~200°C
7D-15	7	5	0.173	3000	<80	>20	-40°C~200°C
8D-15	8	5	0.178	3000	<80	>20	-40°C~200°C
10D-15	10	5	0.180	3200	<75	>20	-40°C~200°C
12D-15	12	4	0.250	3200	<75	>20	-40°C~200°C
15D-15	15	4	0.268	3200	<85	>21	-40°C~200°C
16D-15	16	4	0.276	3200	<70	>21	-40°C~200°C
18D-15	18	4	0.3375	3200	<70	>21	-40°C~200°C
20D-15	20	4	0.288	3200	<86	>21	-40°C~200°C
22D-15	22	4	0.3812	3200	<86	>21	-40°C~200°C
25D-15	25	3.5	0.358	3200	<86	>21	-40°C~200°C
30D-15	30	3.5	0.438	3200	<75	>21	-40°C~200°C
33D-15	33	3	0.571	3200	<86	>21	-40°C~200°C
40D-15	40	3	0.587	3200	<86	>21	-40°C~200°C
47D-15	47	3	0.680	3200	<86	>21	-40°C~200°C
50D-15	50	3	0.734	3200	<86	>21	-40°C~200°C
60D-15	60	3	0.881	3200	<86	>21	-40°C~200°C
80D-15	80	2	1.175	3200	<86	>21	-40°C~200°C
120D-15	120	1.8	1.652	3400	<87	>22	-40°C~200°C

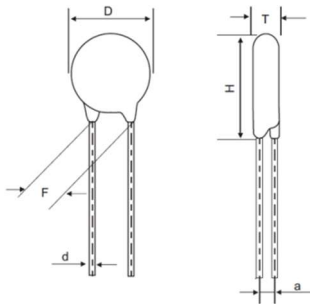
**□D-20 Series**

Part Number	Rated Zero Power Resistance @25°C (Ω)	Maximum Steady Current @25°C (A)	Residual Resistor At Maximum Steady Current @25°C (Ω)	B Value (K) ±10%	Thermal Time Constant (S)	Heat Dissipation Coefficient (mW/°C)	Operating Temperature Range (°C)
0.7D-20	0.7	11	0.018	2400	<89	>24	-40°C ~ 200°C
1D-20	1	9	0.03	2600	<89	>24	-40°C ~ 200°C
1.3D-20	1.3	9	0.037	2600	<88	>24	-40°C ~ 200°C
2D-20	2	8	0.042	2800	<88	>24	-40°C ~ 200°C
2.2D-20	2.2	8	0.1292	2800	<88	>24	-40°C ~ 200°C
2.5D-20	2.5	8	0.052	2800	<88	>24	-40°C ~ 200°C
3D-20	3	8	0.055	2800	<88	>24	-40°C ~ 200°C
4D-20	4	7	0.078	3000	<87	>24	-40°C ~ 200°C
5D-20	5	7	0.087	3000	<87	>24	-40°C ~ 200°C
6D-20	6	6	0.113	3000	<103	>25	-40°C ~ 200°C
8D-20	8	6	0.142	3000	<105	>25	-40°C ~ 200°C
10D-20	10	6	0.162	3200	<102	>25	-40°C ~ 200°C
12D-20	12	5	0.195	3200	<100	>25	-40°C ~ 200°C
16D-20	16	5	0.212	3200	<100	>25	-40°C ~ 200°C
18D-20	18	4.5	0.232	3200	<100	>25	-40°C ~ 200°C
20D-20	20	4.5	0.248	3200	<105	>25	-40°C ~ 200°C
25D-20	25	4	0.302	3200	<115	>26	-40°C ~ 200°C
30D-20	30	4	0.355	3200	<115	>26	-40°C ~ 200°C
33D-20	33	4	0.4495	3200	<115	>26	-40°C ~ 200°C
47D-20	47	4	0.612	3200	<113	>25	-40°C ~ 200°C
60D-20	60	4	0.8172	3200	<113	>25	-40°C ~ 200°C
120D-20	120	2.5	1.628	3200	<120	>28	-40°C ~ 200°C

## □D-25 Series

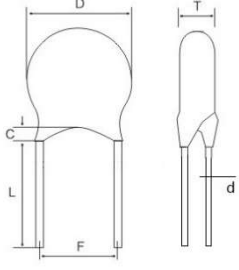
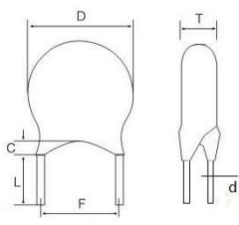
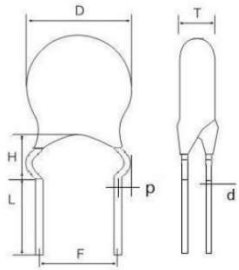
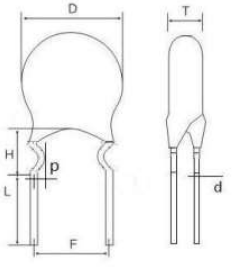
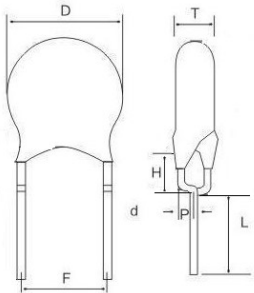
Part Number	Rated Zero Power Resistance @25°C (Ω)	Maximum Steady Current @25°C (A)	Residual Resistor At Maximum Steady Current @25°C (Ω)	B Value (K) ±10%	Thermal Time Constant (S)	Heat Dissipation Coefficient (mW/°C)	Operating Temperature Range (°C)
0.7D-25	0.7	12	0.014	2400	<120	>30	-40°C ~ 200°C
1D-25	1	11	0.02	2600	<121	>30	-40°C ~ 200°C
1.3D-25	1.3	10	0.1078	2600	<121	>30	-40°C ~ 200°C
1.5D-25	1.5	10	0.027	2600	<121	>30	-40°C ~ 200°C
2D-25	2	9	0.034	2800	<124	>32	-40°C ~ 200°C
2.5D-25	2.5	9	0.135	2800	<124	>32	-40°C ~ 200°C
3D-25	3	9	0.044	2800	<124	>32	-40°C ~ 200°C
5D-25	5	8	0.07	3000	<125	>32	-40°C ~ 200°C
8D-25	8	7	0.114	3200	<125	>32	-40°C ~ 200°C
10D-25	10	7	0.13	3200	<127	>32	-40°C ~ 200°C
12D-25	12	6	0.156	3200	<126	>32	-40°C ~ 200°C
15D-25	15	6	0.158	3200	<126	>35	-40°C ~ 200°C
16D-25	16	6	0.16	3200	<126	>35	-40°C ~ 200°C
20D-25	20	6	0.21	3200	<126	>35	-40°C ~ 200°C

## Dimensions (mm) and Approval

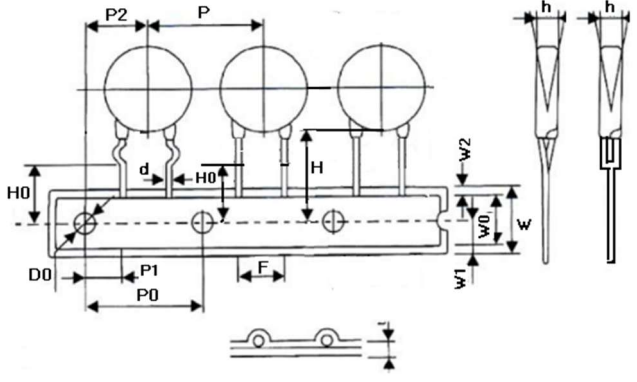
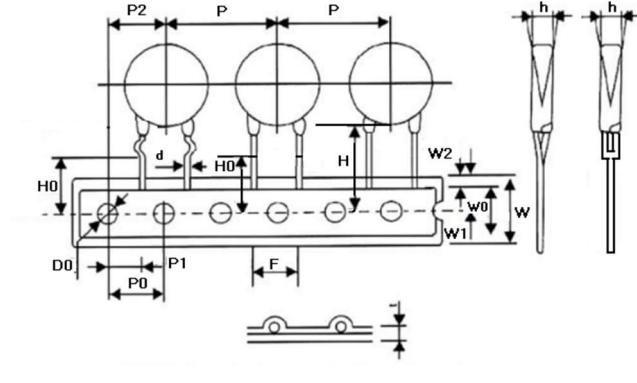


Part No.	Size (mm)			
	D Max.	T Max.	F±0.8	d±0.05
□D-5	6.5	4.0	5.0	0.6
□D-7	8.0	4.5	5.0	0.6
□D-9	9.0	5.5	5.0	0.6
□D-11	11.5	6.0	7.5	0.8
□D-13	14.5	6.5	7.5	0.8
□D-15	16.5	6.5	7.5	0.8
□D-20	21.5	7.0	10.0	1.0
□D-25	26.0	8.0	10.0	1.0

## Lead Configuration

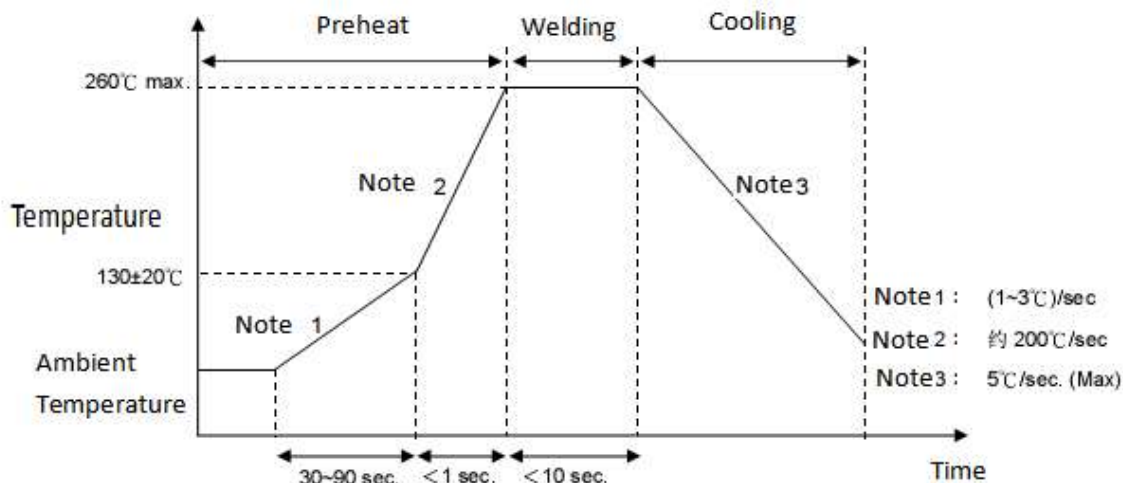
Lead Style	Drawing	Lead Length L (mm)	Coating Lead Length C (mm)	Height H (mm)
Long Straight		16.0 min	3.0 Max	/
Short Straight		①[2.5≤L<6.0]±0.5; ②[6.0≤L≤10]±1.0	3.0 Max	/
Outside Crimped		①[2.5≤L<6.0]±0.5; ②[6.0≤L≤10]±1.0	Not exceed the bend point	6.0mm Max
Inner Crimped		①[2.5≤L<6.0]±0.5; ②[6.0≤L≤10]±1.0	Not exceed the bend point	6.0mm Max
Vertical Crimped		①[2.5≤L<6.0]±0.5; ②[6.0≤L≤10]±1.0	Not exceed the bend point	4.0mm Max

### Taping And Dimensions (mm)

Figure	Fig.1		Fig.2				
	Symbol	P=5.0	P=7.5		P=10.0		
	Po	12.7±0.3	12.7±0.3	12.7±0.3			
	P	12.7±1.0	25.4±1.0	25.4±1.0			
	P1	3.85±0.7	8.95±0.7	7.7±0.7			
	P2	6.35±1.3	12.7±1.3	12.7±1.3			
	F	5±0.8	7.5±0.8	10.0±0.8			
	Δh	0±2.0	0±2.0	0±2.0			
	W	18.0+1.5/-1.0	18.0 +1.5/-1.0	18.0 +1.5/-1.0			
	Wo	10.5 Max	10.5 Max	10.5 Max			
	W1	9.0+0.75/-0.5	9.0+0.75/-0.5	9.0+0.75/-0.5			
	W2	3.0 Max	3.0 Max	3.0 Max			
	Do	4.0±0.2	4.0±0.2	4.0±0.2			
	H	20+1.5/-1.0	20+1.5/-1.0	20+1.5/-1.0			
	Ho	16.5&17.0&19.0 +1.5/-1.0	16.5&17.0&19.0 +1.5/-1.0	16.5&17.0&19.0 +1.5/-1.0			
	L	Straight Lead	Crimped Lead	Straight Lead	Crimped Lead	Straight Lead	Crimped Lead
		11.0 Max	9.0 Max	11.0 Max	9.0 Max	11.0 Max	9.0 Max
	t1	0.5±0.2	0.5±0.2	0.5±0.2			
	Fig.2 (P=7.5 & 10)	t2	1.7 Max	1.7 Max	1.7 Max		

## Soldering Condition

### Wave Soldering Graph



Note: Film capacitor is not suitable for reflow soldering welding, because it will cause thermal contraction and affect electrical performance.

### Iron Soldering Condition

Item	Condition
Temperature of soldering copper bit	$360^\circ\text{C}$ (max.)
Soldering duration	3sec (max.)
Space between soldering position and coating layer	2mm (min.)