



**THE DATASHEET OF
MF73T-1 1/20**



MF73T-1



CANTHERM

Supplying high-quality bimetal and thermal sensor products.

HIGH POWER
INRUSH CURRENT LIMITERS



NTC THERMISTOR

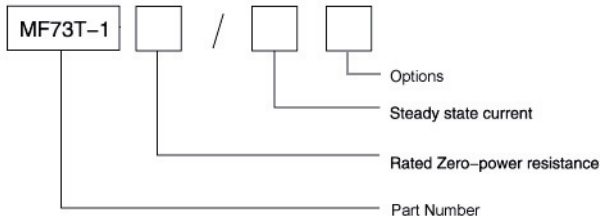
Characteristics

- Small size, high power, reliable surge current protection.
- High material constant (B value),
- Low residual resistance
- High steady state current, long lasting, high reliability
- Convenient for PCB installation, wide operating range

Applications

- High power switching power supplies, Power conversion, UPS power.
- High power battery charger, electric vehicle battery charger.
- High power LED light, high power electronic energy saving lamps and other lamps.

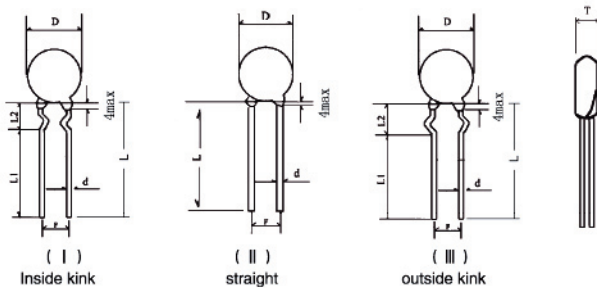
Specification



MF73T-1



Dimensions (mm)



	D15	D20	D25	D30	D35
Chip Dimensions	ø15	ø20	ø25	ø30	ø35
(Dmax) Overall Diameter (mm)	17.5	22.5	29	36	41
(Tmax) Thickness (mm)	6	7	8	8.5	10
(F ± 1.5) Pitch (mm)	7.5	10.0	10.0	10.0	18
(d ± 0.05) Dia of Leads (mm)	0.8	1.0	1.0	1.2	1.8
(L) min Length of Leads (mm)	25	25	25	25	25
(L1) min Length of Leads (mm)	17	17	17		
Standard Leads Figure	(I) Inside kink	(II) Straight	(II) Straight	(II) Straight	(II) Straight
Optional Leads Figure	(II) Straight	(III) Outside kink	(III) Outside kink		
Weight (g). Approx	3.1	6.2	8.8	20.5	28.8

Options

Add suffix "Pxx" to specify the Pitch (F) or "Dxx" for Diameter of the leads (d)

Add suffix "L" + figure # to part number to specify optional leads

* Standard

Technical Specifications

Working Temperature: -55 ~ 200°C

Part No. MF73T-1	Res +20% (Ω)	Max. Steady State Current I _{max} (A)	Approx. R of Max Current R _{max} (Ω)
ø15mm Chip Diameter			
Max Rated Power P _{max} (W): 3.5			
Dissipation Coefficient (mW/°C): ≥ 22			
Thermal Time Constant (S): ≤ 75			
1.3/10	1.3	10	0.034
1.5/10	1.5	10	0.036
2.5/9.5	2.5	9.5	0.044
3/9	3	9	0.046
5/8	5	8	0.058
6/7	6	7	0.069
7/7	7	7	0.078
8/7	8	7	0.084
10/7	10	7	0.098
12/6	12	6	0.116
15/6	15	6	0.125
16/6	16	6	0.129
20/6	20	6	0.136
30/5	30	5	0.165
47/4	47	4	0.257
120/2.5	120	2.5	0.652
ø20mm Chip Diameter			
Max Rated Power P _{max} (W): 5.0			
Dissipation Coefficient (mW/°C): ≥ 28			
Thermal Time Constant (S): ≤ 110			
0.7/16	0.7	16	0.026
1/16	1	16	0.027
1.5/15	1.5	15	0.030
2/14	2	14	0.035
2.5/13	2.5	13	0.038
3/12	3	12	0.040
4/12	4	12	0.043
4.7/12	4.7	12	0.046
5/12	5	12	0.047
6/11	6	11	0.052
6.8/10	6.8	10	0.055
7/9	7	9	0.056
10/8	10	8	0.085
12/7.5	12	7.5	0.098
15/7	15	7	0.112
18/7	18	7	0.123
20/7	20	7	0.132

Part No. MF73T-1	Res +20% (Ω)	Max. Steady State Current I _{max} (A)	Approx. R of Max Current R _{max} (Ω)
ø25mm Chip Diameter			
Max Rated Power P _{max} (W): 7.0			
Dissipation Coefficient (mW/°C): ≥ 30			
Thermal Time Constant (S): ≤ 130			
0.5/22	0.5	22	0.017
0.7/22	0.7	22	0.017
1/20	1	20	0.021
1.5/19	1.5	19	0.024
2/18	2	18	0.026
2.5/16	2.5	16	0.029
3/15.5	3	15.5	0.032
4/15	4	15	0.039
4.7/14	4.7	14	0.044
5/14	5	14	0.047
6.8/12	6.8	12	0.061
7/11	7	11	0.064
8/10	8	10	0.079
10/10	10	10	0.084
12/9	12	9	0.102
15/8	15	8	0.117
18/8	18	8	0.125
20/8	20	8	0.132

Technical Specifications

Working Temperature: -55 ~ 200°C

Part No. MF73T-1	Res +20% (Ω)	Max. Steady State Current I _{max} (A)	Approx. R of Max Current R _{max} (Ω)
ø30mm Chip Diameter			
Max Rated Power P _{max} (W): 8.0			
Dissipation Coefficient (mW/°C): ≥ 40			
Thermal Time Constant (S): ≤ 190			
0.5/30	0.5	30	0.013
1/30	1	30	0.014
1.5/25	1.5	25	0.016
2/23	2	23	0.019
2.5/20	2.5	20	0.023
3/19.5	3	19.5	0.026
4/19	4	19	0.031
4.7/18	4.7	18	0.035
5/17	5	17	0.037
6.8/16	6.8	16	0.043
7/15	7	15	0.044
8/14	8	14	0.049
10/13	10	13	0.056
12/12	12	12	0.067
15/11	15	11	0.078
18/10	18	10	0.092
20/9	20	9	0.113

Part No. MF73T-1	Res +20% (Ω)	Max. Steady State Current I _{max} (A)	Approx. R of Max Current R _{max} (Ω)
ø35mm Chip Diameter			
Max Rated Power P _{max} (W): 9.0			
Dissipation Coefficient (mW/°C): ≥ 55			
Thermal Time Constant (S): ≤ 280			
0.5/32	0.5	32	0.01
1/32	1	32	0.011
1.5/28	1.5	28	0.013
2/25	2	25	0.017
2.5/23	2.5	23	0.020
3/22	3	22	0.023
4/21	4	21	0.026
4.7/20	4.7	20	0.029
5/19	5	19	0.030
6.8/18	6.8	18	0.035
7/17	7	17	0.037
8/16	8	16	0.041
10/15	10	15	0.045
12/14	12	14	0.051
15/13	15	13	0.060
18/11	18	11	0.072
20/10	20	10	0.089



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