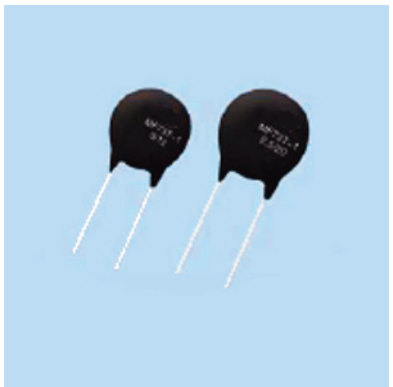
D-FIRST Electronics

MF73T-1

HIGH POWER
INRUSH CURRENT LIMITERS



NTC THERMISTOR

Characteristics

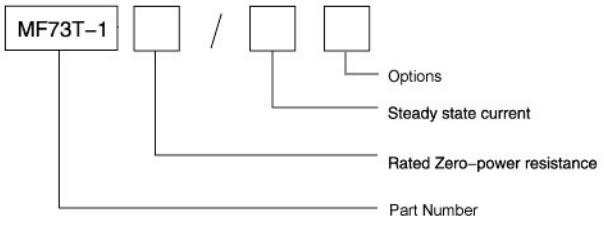
- Small size, high power, reliable surge current protection.
- High material constant (B value),
- Low residual resistance
- High steady state current, long lasting, high reliability
- Convenient for PCB installation, wide operating range

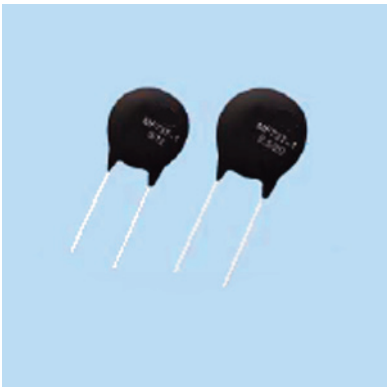
Applications

- 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.

MF73T-1

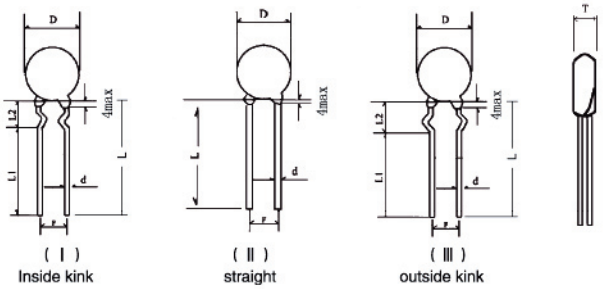
Specification





RoHS COMPLIANT

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	18	
(d ± 0.05) Dia of Leads (mm)	0.8	1.0	1.0	1.2	* 1.6	1.8	* 2.0
(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 ~ 200ºC

Part No. MF73T-1	Res +20% (Ω)	Max. Steady State Current Imax (A)	Approx. R of Max Current Rmax (Ω)
ø15mm Chip Diameter Max Rated Power Pmax (W): 3.5 Dissipation Coefficient (mW/ºC): ≥ 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 Pmax (W): 5.0 Dissipation Coefficient (mW/ºC): ≥ 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 Imax (A)	Approx. R of Max Current Rmax (Ω)
ø25mm Chip Diameter Max Rated Power Pmax (W): 7.0 Dissipation Coefficient (mW/ºC): ≥ 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 ~ 200ºC

Part No. MF73T-1	Res +20% (Ω)	Max. Steady State Current Imax (A)	Approx. R of Max Current Rmax (Ω)
ø30mm Chip Diameter Max Rated Power Pmax (W): 8.0 Dissipation Coefficient (mW/ºC): ≥ 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 Imax (A)	Approx. R of Max Current Rmax (Ω)
ø35mm Chip Diameter Max Rated Power Pmax (W): 9.0 Dissipation Coefficient (mW/ºC): ≥ 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