

MF73T-1



CANTHERM

Supplying high-quality bimetal and thermal sensor products.

HIGH POWER
INRUSH CURRENT LIMITERS



NTC THERMISTOR

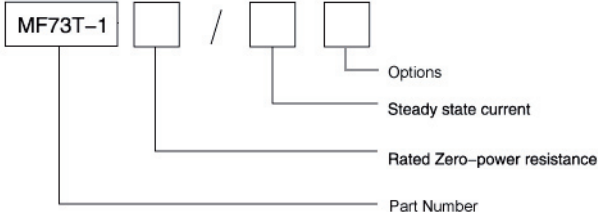
Characteristics

- 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.

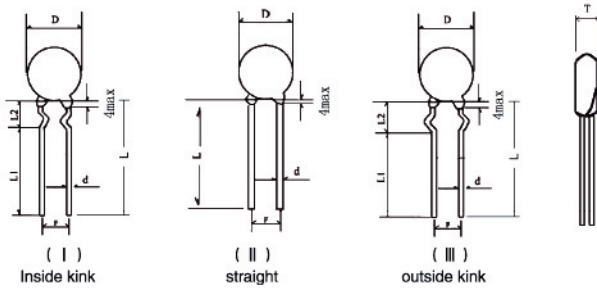
Specification



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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Supplying high-quality bimetal and thermal sensor products.

8415 Mountain Sights Avenue • Montreal (Quebec), H4P 2B8, Canada

Tel: (514) 739-3274 • 1-800-561-7207 • Fax: (514) 739-2902 • E-mail: sales@cantherm.com

Website: www.cantherm.com | Division of Microtherm

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