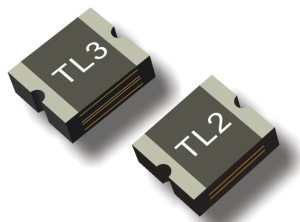


# III- USML1210 Series

REOMAX - PPTC Resettable Fuses



## Features

- ◆ SMD
- ◆ Fully compatible with current industry standards
- ◆ Very low internal resistance
- ◆ Nickel terminals
- ◆ RoHS Compliant
- ◆ Agency recognition: on Approval.

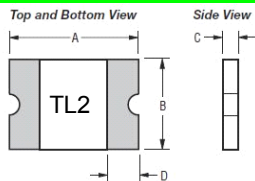
## Applications

- ◆ Any application that requires protection at low resistances
- ◆ Cellular phones
- ◆ Laptop computers
- ◆ Rechargeable battery pack protection.

## Electrical Characteristics (电气特性):

| P/N     | 保持电流      | 跳脱电流      | 最大电压          | 最大电流          | 最大动作时间     | 消耗功率             | 电阻范围(Ω)   |            |
|---------|-----------|-----------|---------------|---------------|------------|------------------|-----------|------------|
|         | $I_H$ (A) | $I_T$ (A) | $V_{max}$ (V) | $I_{max}$ (A) | (A) (Sec.) | $P_{d\ typ}$ (W) | $R_{min}$ | $R1_{max}$ |
| USML110 | 1.10      | 2.20      | 6.00          | 50            | 5.50 3.00  | 0.80             | 0.01      | 0.100      |
| USML150 | 1.50      | 3.00      | 6.00          | 50            | 8.00 3.00  | 0.80             | 0.009     | 0.060      |
| USML175 | 1.75      | 3.50      | 6.00          | 50            | 8.0 2.50   | 1.00             | 0.006     | 0.040      |
| USML190 | 1.90      | 3.80      | 6.00          | 50            | 8.00 3.00  | 0.80             | 0.005     | 0.025      |
| USML200 | 2.00      | 4.00      | 6.00          | 50            | 8.00 3.00  | 0.80             | 0.005     | 0.025      |
| USML260 | 2.60      | 5.00      | 6.00          | 50            | 8.00 4.00  | 0.80             | 0.003     | 0.020      |
| USML300 | 3.00      | 8.00      | 6.00          | 50            | 17.50 5.00 | 1.00             | 0.003     | 0.018      |
| USML350 | 3.50      | 8.00      | 6.00          | 50            | 17.50 4.00 | 1.00             | 0.003     | 0.018      |
| USML380 | 3.80      | 8.00      | 6.00          | 50            | 19.00 4.00 | 1.00             | 0.003     | 0.018      |

## Product Dimensions & Marking (Unit: mm) (产品尺寸):



Manufacturer's Trademark

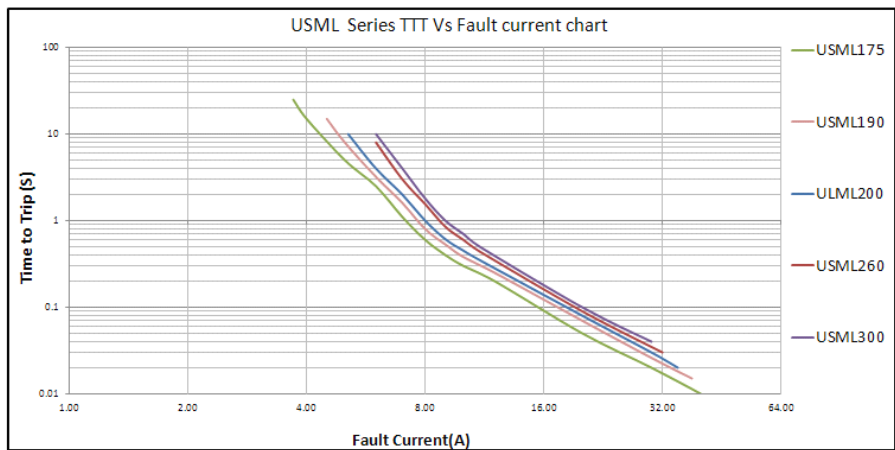
Part Identification

| P/N     | Marking<br>(标识) | A        |          | B        |          | C        |          | D        |
|---------|-----------------|----------|----------|----------|----------|----------|----------|----------|
|         |                 | Min.(最小) | Max.(最大) | Min.(最小) | Max.(最大) | Min.(最小) | Max.(最大) | Min.(最小) |
| USML110 | TL1             | 3.00     | 3.43     | 2.35     | 2.80     | 0.60     | 1.00     | 0.30     |
| USML150 | TL1             | 3.00     | 3.43     | 2.35     | 2.80     | 0.60     | 1.00     | 0.30     |
| USML175 | TL2             | 3.00     | 3.43     | 2.35     | 2.80     | 0.60     | 1.00     | 0.30     |
| USML190 | TL2             | 3.00     | 3.43     | 2.35     | 2.80     | 0.60     | 1.00     | 0.30     |
| USML200 | TL2             | 3.00     | 3.43     | 2.35     | 2.80     | 0.60     | 1.00     | 0.30     |
| USML260 | TL3             | 3.00     | 3.43     | 2.35     | 2.80     | 0.90     | 1.40     | 0.30     |
| USML300 | TL3             | 3.00     | 3.43     | 2.35     | 2.80     | 0.90     | 1.40     | 0.30     |
| USML350 | TL3             | 3.00     | 3.43     | 2.35     | 2.80     | 0.90     | 1.40     | 0.30     |
| USML380 | TL3             | 3.00     | 3.43     | 2.35     | 2.80     | 0.90     | 1.40     | 0.30     |

## Thermal Derating Chart – $I_{hold}$ (Amps) (环境温度与工作电流关系特性曲线)

| P/N     | Ambient Operating Temperature(工作环境温度) |      |      |      |      |      |      |      |      |
|---------|---------------------------------------|------|------|------|------|------|------|------|------|
|         | -40℃                                  | -20℃ | 0℃   | 25℃  | 40℃  | 50℃  | 60℃  | 70℃  | 85℃  |
| USML110 | 1.60                                  | 1.43 | 1.29 | 1.10 | 0.95 | 0.85 | 0.76 | 0.69 | 0.55 |
| USML150 | 2.18                                  | 1.95 | 1.76 | 1.50 | 1.29 | 1.16 | 1.04 | 0.93 | 0.75 |
| USML175 | 2.54                                  | 2.28 | 2.05 | 1.75 | 1.51 | 1.35 | 1.21 | 1.09 | 0.88 |
| USML190 | 3.04                                  | 2.66 | 2.28 | 1.90 | 1.71 | 1.52 | 1.33 | 1.14 | 0.95 |
| USML200 | 3.20                                  | 2.80 | 2.40 | 2.00 | 1.80 | 1.60 | 1.40 | 1.20 | 1.00 |
| USML260 | 4.20                                  | 3.75 | 3.30 | 2.60 | 2.20 | 1.95 | 1.70 | 1.45 | 1.05 |
| USML300 | 4.35                                  | 3.90 | 3.51 | 3.00 | 2.58 | 2.31 | 2.07 | 1.86 | 1.50 |
| USML350 | 5.08                                  | 4.56 | 4.10 | 3.50 | 3.02 | 2.70 | 2.42 | 2.18 | 1.76 |
| USML380 | 5.52                                  | 4.95 | 4.45 | 3.80 | 3.28 | 2.93 | 2.63 | 2.37 | 1.91 |

Typical time to trip at 25℃（25℃下的动作保护时间曲线表）:



◆ The Time to Trip curves represent typical performance of a device in a simulated application environment. Actual performance in specific customer applications may differ from these values due to the influence of other variables.

Agency Approvals（安规认证）:

- Agency Approvals: UL、CSA、TUV
- Regulation/Standard:RoHS 2.0(2011/65/CE)

Package information（包装信息）:

| Model           | Q'ty/Reel |
|-----------------|-----------|
| USML110~USML200 | 4000 pcs  |
| USML260~USML380 | 3500 pcs  |

Note: Reel packaging per EIA-481-1 standard