

目录

| | |
|--|----|
| 1 适用范围 Scope | 2 |
| 2 术语 Glossary | 2 |
| 3 型号说明 Part Number System | 2 |
| 4 安规认证 Agency Approvals | 2 |
| 5 技术参数 Specifications | 3 |
| 6 结构尺寸 Structure and Dimensions | 4 |
| 7 检验 Inspection | 10 |
| 7.1 大气条件 Atmospheric Conditions | 10 |
| 7.3 电压保护额定值测试 Voltage Protection Rating Test | 11 |
| 7.4 标称放电电流试验 Nominal Discharge Current Test | 11 |
| 7.5 最大放电电流试验 Maximum Discharge Current Test | 11 |
| 8 推荐焊接条件 Soldering Conditions | 12 |
| 9 注意事项 Important Note | 12 |
| 10 标示及包装 Marking and Package | 13 |

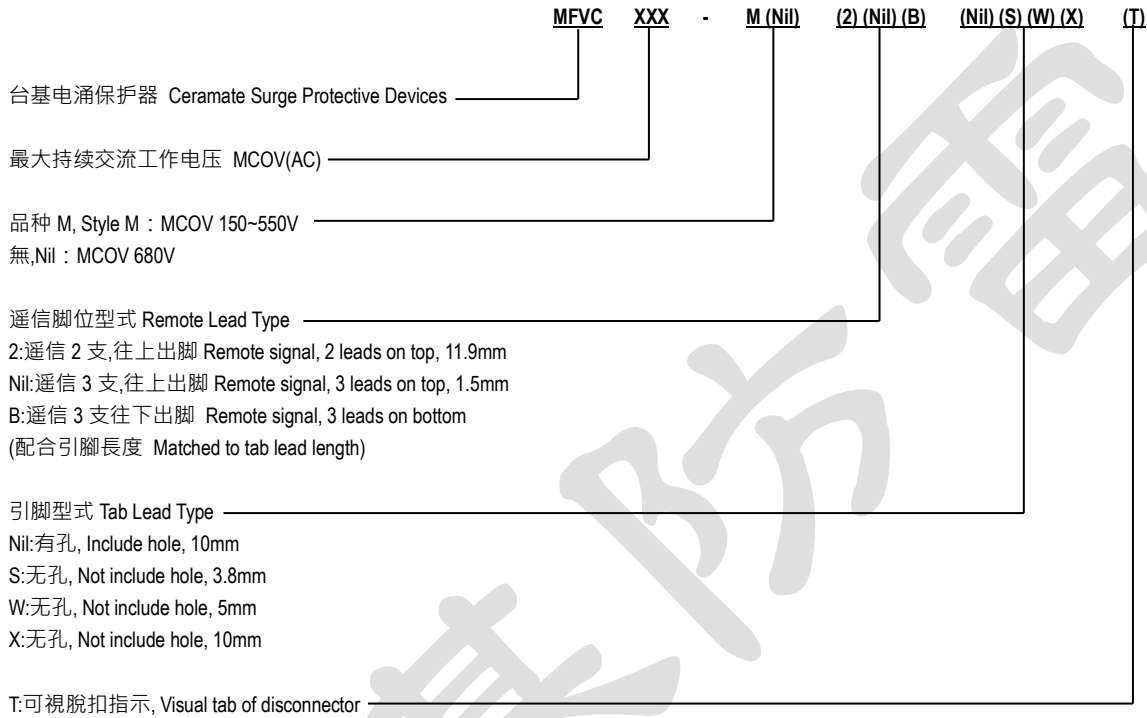
1 适用范围 Scope

本规格书适用于型号为 MFVC 系列的热保护型压敏电阻 (TcoMOV)。
 The specification is applicable for MFVC Series varistors with thermal protection (TcoMOV).

2 术语 Glossary

参考标准 Reference Standards
 UL1449 4th ed (2018), IEC 61051-1:2007, IEC 61051-2:1991, EN61643-11:2012

3 型号说明 Part Number System



4 安规认证 Agency Approvals

| 认证机构 Agency | 标准 Standards | 认证号 File No. | 类别 Category |
|--|--------------------------|-------------------|-------------|
|  UL | UL 1449 4th | E315429 | 1CA |
|  cUL | CSA C22.2 No.269.5-17 | E315429 | 1CA(4-1) |
|  Most | EN61643-11:2012 | MTS/DNZ/B17010010 | Class II |

5 技术参数 Specifications

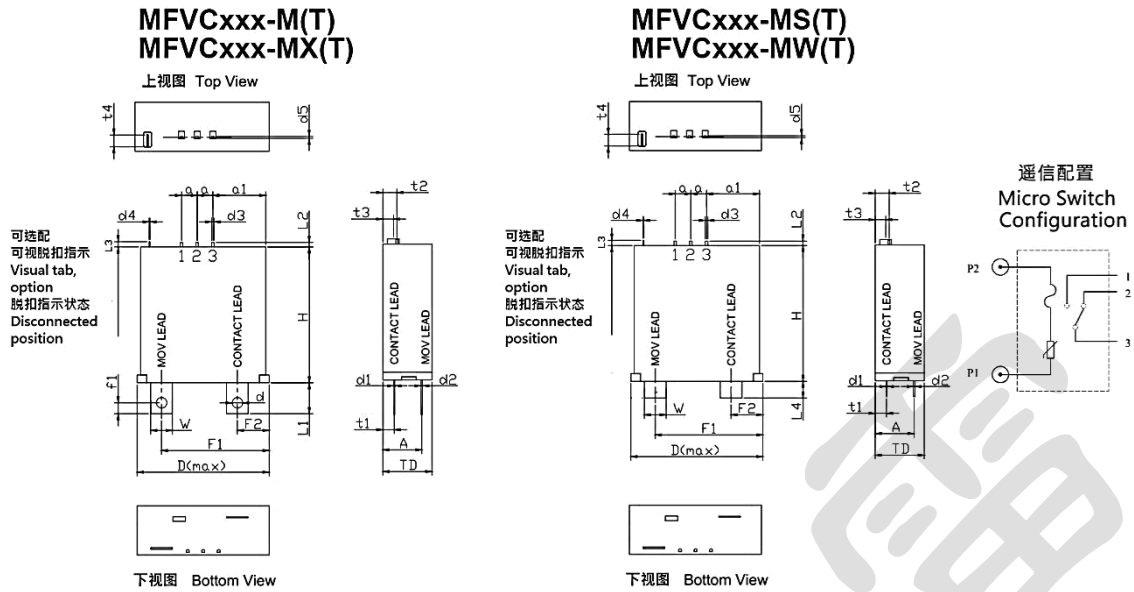
| 技术术语 Glossary of Terms | 技术参数 Specifications | 参照标准 Referencem Standards |
|--|------------------------|------------------------------|
| 工作温度 Operation Temp. Range | -40°C~+85°C | UL 1449 |
| 储存温度 Storage Temp. Range | -40°C~+125°C | IEC 61051 |
| 压敏电压 Varistor Voltage (Vn) | * V | UL 1449 |
| 漏电流 Leakage Current (75% of Vn) | ≤20μA | IEC 61051 |
| 最大连续工作电压 Maximum Continuous Operating Voltage | AC: * V/DC: * V | UL 1449 |
| 电压保护额定值 Voltage Protection Rating (VPR) | * V | UL 1449 |
| 标称放电电流 Nominal Discharge Current (In, 8/20μs) | * kA | UL 1449 |
| 最大放电电流 Maximum Discharge Current (Imax, 8/20μs) | * kA | UL 1449 |
| 绝缘电压(引脚与外壳间) Dielectric Voltage (Between Leads and Enclosure) | ≥2500V,1minute | UL 1449 |

| 型号 PART NUMBER | 额定电压 SPD Voltage Rating | 最大连续工作电压 Maximum Continuous Operating Voltage MCOV | | 压敏电压 Varistor Voltage Vn | 电压保护水平 Voltage Protection Rating VPR | 标称放电电流 Nominal Discharge Current In | 最大放电电流 Maximum Discharge Current Imax | 额定短路电流 Short Circuit Current Rating SCCR |
|----------------------|----------------------------------|---|-------|---------------------------------------|--|--|--|---|
| | (Vac) | (Vac) | (Vdc) | (V) | (V) | (kA, 8/20us) | (kA, 8/20us) | (kA) |
| MFVC150-M | 120 | 150 | 200 | 216~264 | 600 | 20 | 50 | 200 |
| MFVC180-M | 120 | 180 | 225 | 243~297 | 700 | | | |
| MFVC250-M | 120 | 250 | 320 | 351~429 | 900 | | | |
| MFVC275-M | 239 | 275 | 350 | 387~473 | 900 | | | |
| MFVC300-M | 239 | 300 | 385 | 423~517 | 900 | | | |
| MFVC320-M | 277 | 320 | 410 | 459~561 | 900 | | | |
| MFVC385-M | 277 | 385 | 505 | 558~682 | 1500 | | | |
| MFVC420-M | 347 | 420 | 560 | 612~748 | 1500 | | | |
| MFVC510-M | 347 | 510 | 670 | 738~902 | 1500 | | | |
| MFVC550-M | 480 | 550 | 745 | 819~1001 | 2000 | | | |
| MFVC680 | 600 | 680 | 895 | 990~1210 | 2000 | | | |

遥信开关 Remote Control Micro Switch

| 额定电压 Rated Voltage | 额定电流 Rated Current | 接触电阻 Contact Resistance | 绝缘电阻 Insulation Resistance |
|-----------------------|-----------------------|----------------------------|-------------------------------|
| 125 Vac | 2 A | 200 mΩ max | 100 MΩ min |

6 结构尺寸 Structure and Dimensions



Unit : mm

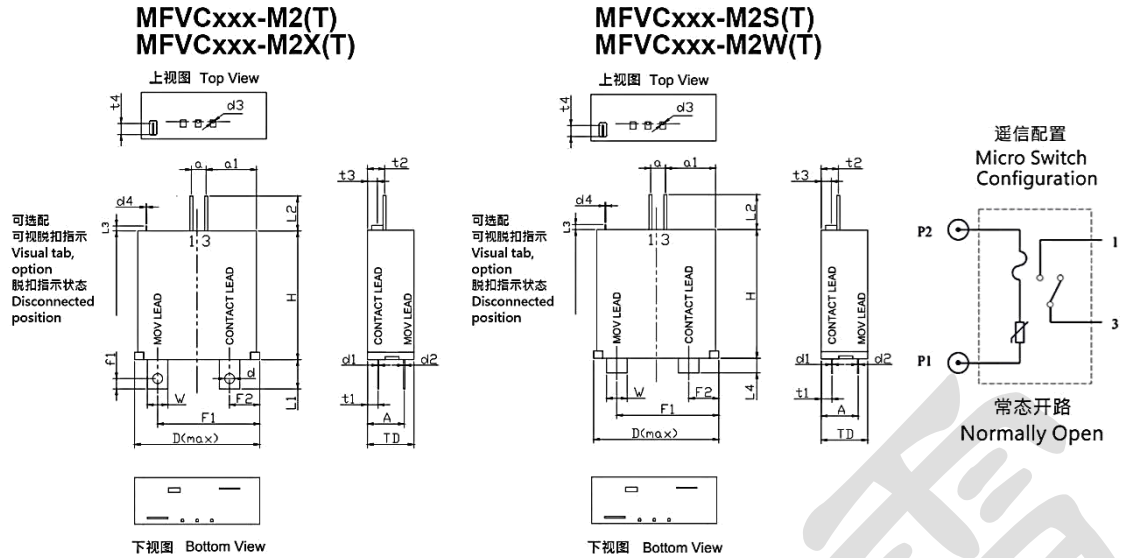
| | | | | | |
|----------|----------|----------|----------|----------|----------|
| D | TD | H | W | F1 | F2 |
| 43.1 max | 16.1±1.0 | 44.3 max | 7.0±0.5 | 34.9±0.6 | 10.3±0.1 |
| L2 | a | a1 | d1 | d2 | d3 |
| 1.5±0.5 | 5.0±0.3 | 17.2±0.5 | 0.3±0.05 | 0.5±0.05 | 0.8±0.3 |
| d5 | t1 | t2 | | | |
| 0.6±0.3 | 3.7±0.5 | 4.5±0.7 | | | |

| | | | | | |
|----------------------------|---------|---------|---------|--|--|
| 可选配脱扣指示 Visual tab, option | | | | | |
| L3 | d4 | t3 | t4 | | |
| 1.7 max | 0.4±0.1 | 3.4±0.5 | 3.8±0.2 | | |

| | | | | | |
|---------------------------------------|----------|--------|--------|---------|---------|
| 可选配引脚/遥信 Tab lead/ Remote lead option | | | | | |
| M(T) | | MX(T) | MS(T) | MW(T) | |
| f1 | d | L1 | L1 | L4 | L4 |
| 3.5±0.5 | ∅3.5±0.5 | 10±1.0 | 10±1.0 | 3.8±1.0 | 5.0±1.0 |

| | | | | | |
|----------------|------------------------------------|----------------|------------------------------------|----------------|------------------------------------|
| 型号 Part No. | A | 型号 Part No. | A | 型号 Part No. | A |
| MFVC150 | 12.3 ⁺¹ _{-0.5} | MFVC300 | 13.0 ⁺¹ _{-0.5} | MFVC510 | 13.7 ⁺¹ _{-0.5} |
| MFVC180 | 12.3 ⁺¹ _{-0.5} | MFVC320 | 13.0 ⁺¹ _{-0.5} | MFVC550 | 13.8 ⁺¹ _{-0.5} |
| MFVC250 | 12.6 ⁺¹ _{-0.5} | MFVC385 | 13.7 ⁺¹ _{-0.5} | | |
| MFVC275 | 12.6 ⁺¹ _{-0.5} | MFVC420 | 13.7 ⁺¹ _{-0.5} | | |

注意：安装时若是弯折引脚可能导致内部结构损坏,产品将失去质量保证。若有弯折引脚需求可客制化。
Caution：Bending of bottom leads during installation may cause internal damage and will void manufacturer's product warranty. Bending of bottom leads requirements could be customized.



Unit : mm

| D | TD | H | W | F1 | F2 |
|----------|----------|----------|----------|----------|-----------|
| 43.1 max | 16.1±1.0 | 44.3 max | 7.0±0.5 | 34.9±0.6 | 10.3±0.1 |
| L2 | a | a1 | d1 | d2 | d3 |
| 11.9±0.3 | 5.0±0.5 | 17.2±0.5 | 0.3±0.05 | 0.5±0.05 | ∅1.0±0.05 |
| t1 | t2 | | | | |
| 3.7±0.5 | 5.8±0.3 | | | | |

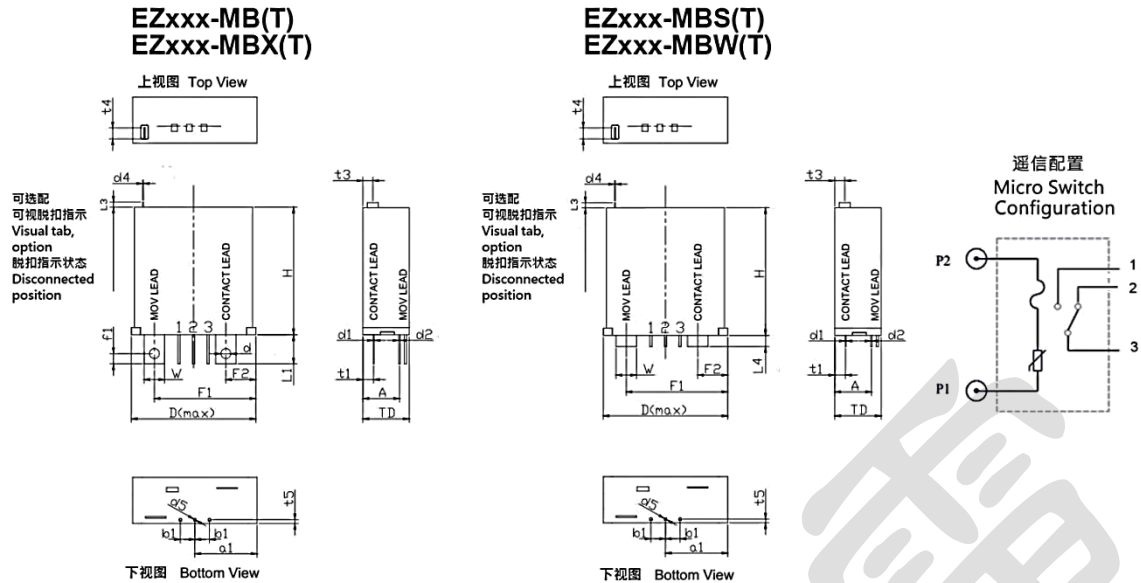
| 可选配脱扣指示 Visual tab, option | | | | | |
|----------------------------|---------|---------|---------|--|--|
| L3 | d4 | t3 | t4 | | |
| 1.7 max | 0.4±0.1 | 3.4±0.5 | 3.8±0.2 | | |

| 可选配引脚/遥信 Tab lead/ Remote lead option | | | | | |
|---------------------------------------|----------|--------|--------|---------|---------|
| | M2(T) | M2X(T) | M2S(T) | M2W(T) | |
| f1 | d | L1 | L1 | L4 | L4 |
| 3.5±0.5 | ∅3.5±0.5 | 10±1.0 | 10±1.0 | 3.8±1.0 | 5.0±1.0 |

| 型号 Part No. | A | 型号 Part No. | A | 型号 Part No. | A |
|----------------|------------------------------------|----------------|------------------------------------|----------------|------------------------------------|
| MFVC150 | 12.3 ⁺¹ _{-0.5} | MFVC300 | 13.0 ⁺¹ _{-0.5} | MFVC510 | 13.7 ⁺¹ _{-0.5} |
| MFVC180 | 12.3 ⁺¹ _{-0.5} | MFVC320 | 13.0 ⁺¹ _{-0.5} | MFVC550 | 13.8 ⁺¹ _{-0.5} |
| MFVC250 | 12.6 ⁺¹ _{-0.5} | MFVC385 | 13.7 ⁺¹ _{-0.5} | | |
| MFVC275 | 12.6 ⁺¹ _{-0.5} | MFVC420 | 13.7 ⁺¹ _{-0.5} | | |

注意：安装时若是弯折引脚可能导致内部结构损坏,产品将失去质量保证。若有弯折引脚需求可定制化。

Caution : Bending of bottom leads during installation may cause internal damage and will void manufacturer's product warranty. Bending of bottom leads requirements could be customized.



| D | TD | H | W | F1 | F2 |
|----------|----------|----------|----------|-----------|----------|
| 43.1 max | 16.1±1.0 | 44.3 max | 7.0±0.5 | 34.9±0.6 | 10.3±0.1 |
| a1 | b1 | d1 | d2 | d5 | t1 |
| 21.4±0.5 | 5±0.5 | 0.3±0.05 | 0.5±0.05 | ∅0.8±0.05 | 3.7±0.5 |
| t5 | | | | | |
| 1.33±0.3 | | | | | |

| 可选配脱扣指示 Visual tab, option | | | | | |
|----------------------------|---------|---------|---------|--|--|
| L3 | d4 | t3 | t4 | | |
| 1.7 max | 0.4±0.1 | 3.4±0.5 | 3.8±0.2 | | |

| 可选配引脚/遥信 Tab lead/ Remote lead option | | | | | |
|---------------------------------------|----------|--------|--------|---------|---------|
| | MB(T) | MBX(T) | MBS(T) | MBW(T) | |
| f1 | d | L1 | L1 | L4 | L4 |
| 3.5±0.5 | ∅3.5±0.5 | 10±1.0 | 10±1.0 | 3.8±1.0 | 5.0±1.0 |

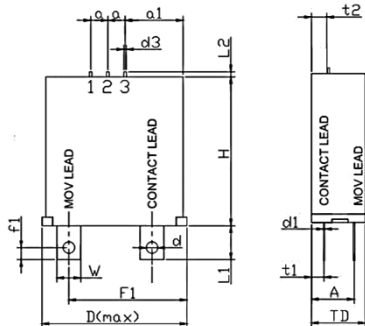
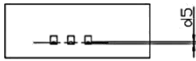
| 型号 Part No. | A | 型号 Part No. | A | 型号 Part No. | A |
|----------------|------------------------------------|----------------|------------------------------------|----------------|------------------------------------|
| MFVC150 | 12.3 ⁺¹ _{-0.5} | MFVC300 | 13.0 ⁺¹ _{-0.5} | MFVC510 | 13.7 ⁺¹ _{-0.5} |
| MFVC180 | 12.3 ⁺¹ _{-0.5} | MFVC320 | 13.0 ⁺¹ _{-0.5} | MFVC550 | 13.8 ⁺¹ _{-0.5} |
| MFVC250 | 12.6 ⁺¹ _{-0.5} | MFVC385 | 13.7 ⁺¹ _{-0.5} | | |
| MFVC275 | 12.6 ⁺¹ _{-0.5} | MFVC420 | 13.7 ⁺¹ _{-0.5} | | |

注意：安装时若是弯折引脚可能导致内部结构损坏,产品将失去质量保证。若有弯折引脚需求可客制化。

Caution: Bending of bottom leads during installation may cause internal damage and will void manufacturer's product warranty. Bending of bottom leads requirements could be customized.

MFVC680
MFVC680-X

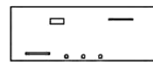
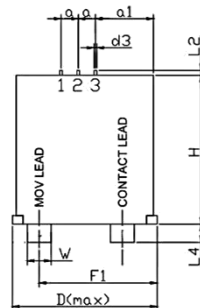
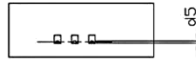
上视图 Top View



下视图 Bottom View

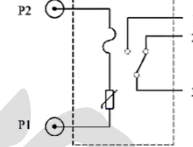
MFVC680-S
MFVC680-W

上视图 Top View



下视图 Bottom View

遥信配置
Micro Switch
Configuration



Unit : mm

| D | TD | H | W | F1 | L2 |
|-----------|----------|----------|---------|----------|---------|
| 43.2 max. | 16.0±1.0 | 44.0±1.0 | 7.0±0.5 | 32.0±1.0 | 1.5±0.5 |
| a | a1 | d1 | d3 | d5 | t1 |
| 5.0±0.5 | 18.8±0.5 | 0.5±0.05 | 0.9±0.2 | 0.5±0.2 | 2.3±0.5 |
| t2 | f1 | | | | |
| 4.0±0.5 | 3.5±0.2 | | | | |

| MFVCxxx | | MFVCxxx-X | MFVCxxx-S | MFVCxxx-W | |
|----------|----------|-----------|-----------|-----------|--|
| L1 | d | L1 | L4 | L4 | |
| 10.0±1.0 | ∅3.5±0.1 | 10.0±1.0 | 3.8±1.0 | 5.0±1.0 | |

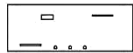
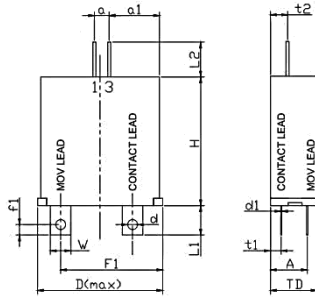
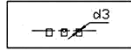
| 型號 Part Number | A (max) |
|----------------|---------|
| MFVC680 | 13.00 |

注意：安装时若是弯折引脚可能导致内部结构损坏,产品将失去质量保证。若有弯折引脚需求可客制化。

Caution : Bending of bottom leads during installation may cause internal damage and will void manufacturer's product warranty. Bending of bottom leads requirements could be customized.

MFVC680-2
MFVC680-2X

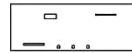
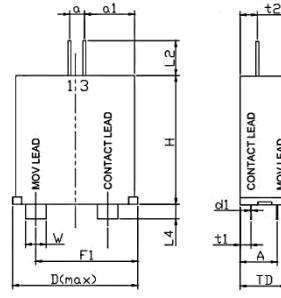
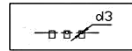
上视图 Top View



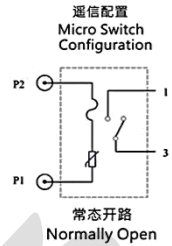
下视图 Bottom View

MFVC680-2S
MFVC680-2W

上视图 Top View



下视图 Bottom View



Unit : mm

| D | TD | H | W | F1 | L2 |
|-----------|----------|----------|-----------|----------|----------|
| 43.2 max. | 16.0±1.0 | 44.0±1.0 | 7.0±0.5 | 32.0±1.0 | 11.9±0.3 |
| a | a1 | d1 | d3 | t1 | t2 |
| 5.0±0.5 | 17.8±0.5 | 0.5±0.05 | ∅0.8±0.05 | 2.3±0.5 | 4.0±0.5 |
| f1 | | | | | |
| 3.5±0.2 | | | | | |

| MFVCXXX-2 | | MFVCXXX-2X | | MFVCXXX-2S | | MFVCXXX-2W | |
|-----------|----------|------------|---------|------------|----|------------|--|
| L1 | d | L1 | L4 | L4 | L4 | | |
| 10.0±1.0 | ∅3.5±0.1 | 10.0±1.0 | 3.8±1.0 | 5.0±1.0 | | | |

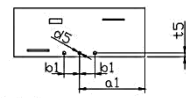
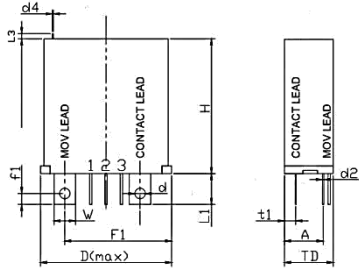
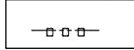
| 型号 Part Number | A (max) |
|----------------|---------|
| MFVC680 | 13.00 |

注意：安装时若是弯折引脚可能导致内部结构损坏,产品将失去质量保证。若有弯折引脚需求可定制化。

Caution : Bending of bottom leads during installation may cause internal damage and will void manufacturer's product warranty. Bending of bottom leads requirements could be customized.

MFVC680-B
MFVC680-BX

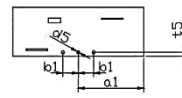
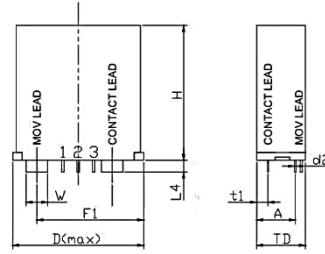
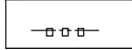
上视图 Top View



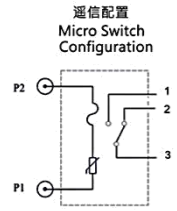
下视图 Bottom View

MFVC680-BS
MFVC680-BW

上视图 Top View



下视图 Bottom View



Unit : mm

| D | TD | H | W | F1 | a1 |
|------------|----------|-----------|---------|----------|-----------|
| 43.20 max. | 16.0±1.0 | 44.0±1.0 | 7.0±0.5 | 32.0±1.0 | 21.83±0.5 |
| b1 | d2 | d5 | t1 | t5 | |
| 5.0±0.5 | 0.5±0.05 | Ø0.8±0.05 | 2.3±0.5 | 1.42±0.5 | |

| MFVCXXX-B | | | MFVCXXX-BX | MFVCXXX-BS | MFVCXXX-BW |
|-----------|---------|----------|------------|------------|------------|
| L1 | f1 | d | L1 | L4 | L4 |
| 10.0±1.0 | 3.5±0.2 | Ø3.5±0.1 | 10.0±1.0 | 3.8±1.0 | 3.8±1.0 |

| 型號 Part Number | A (max) |
|----------------|---------|
| MFVC680 | 13.00 |

注意：安装时若是弯折引脚可能导致内部结构损坏,产品将失去质量保证。若有弯折引脚需求可客制化。

Caution : Bending of bottom leads during installation may cause internal damage and will void manufacturer's product warranty.

Bending of bottom leads requirements could be customized.

7 检验 Inspection
7.1 大气条件 Atmospheric Conditions

温度 Temperature : 15 °C - 35 °C
 相对湿度 Relative Humidity : 45%-75%
 大气压力 Air pressure: 86 kPa to 106 kPa

7.2 常规检验项目 Routine Inspection Items

| 序号 No. | 项目 Items | 试验要求 Test Requirement | 参考标准 Reference Standards | 抽样频率和 接受标准 AQL |
|-----------|---|---|--------------------------------|----------------------|
| 1 | 外观 Appearance | 壳体无穿孔,飞边;引脚镀层良好,无氧化发黑等情况。 The case without perforation,flash,the pin coating is good and no oxidative blackening. | ISO 2768-1 GB/T 1804 | G-II AQL=1.0 |
| 2 | 尺寸 Dimensions | 用游标卡尺测量引脚外露长度,尺寸范围参照 6。 Use vernier caliper to measure the Pin out length,size range reference 6. | ISO 2768-1 GB/T 1804 | S-2 AQL=0.65 |
| 3 | 压敏电压 Varistor Voltage | 将压敏电阻连接到一个可调电压源,调节电压以保持在 10 ms 和 500 ms 之间施加的 1 mA DC 电流测量变阻器两端的电压。 Varistors be connected to a variable voltage source adjusted to maintain a current of 1 mA DC applied between 10 ms and 500 ms and the voltage across the varistor measured. | UL 1449 | G-II AQL=0.25 |
| 4 | 漏电流 Leakage Current | 在 25 °C 温度下,施加 0.75 倍压敏电压时,测通过压敏电阻的电流 $\leq 20 \mu\text{A}$ 。 Measure the current passing through the varistor at 0.75Un,and at a temperature of 25 °C,the leakage current shall be no more than 20 μA . | IEC 61051 | G-II AQL=0.25 |
| 5 | 介电耐压 Dielectric Voltage | 在引脚和外壳间施加工频电压 $\geq 2500 \text{ V}$,1 分钟。 Subject the voltage no less than 2500 V,last for 1 minute between leads and enclosure. | UL 1449 | S-2 AQL=1.0 |
| 6 | 标称放电电流试验 Nominal Discharge Current Test | 参见第 7 章节《检验》第 7.4 条 Reference 7.4 of the chapter 7 《Inspection》 | UL 1449 | 3 PCS/Lot AC=0 |
| 7 | 最大放电电流试验 Maximum Discharge Current Test | 参见第 7 章节《检验》第 7.5 条 Reference 7.5 of the chapter 7 《Inspection》 | UL 1449 | 3 PCS/Lot AC=0 |

7.3 电压保护额定值测试 Voltage Protection Rating Test

测试方法：将防雷器接入测试端，冲击本身为开路电压 1.2/50 μ s 与短路电流为 8/20 μ s 的 6 kV/3kA 复合波来测试“电压保护额定值(VPR)”以标注做“标称放电电流(In)”前的 VPR 值。样品连接至额定电压时施加 3 次(3) x 6 kV/ 3 kA 冲击雷击。雷击必须在 90 \pm 10 度相角触发。“标称放电电流(In)”测试后，同一只样品再进行重复的 VPR 测试。

Test Method: Terminal wires of the SPD shall be subjected to a 6 kV/3kA combination wave surge which has the inherent 1.2/50 μ s voltage wave across an open circuit and 8/20 μ s current wave into a short circuit to determine the "Voltage Protection Rating (VPR)" and to benchmark the sample prior to the "Nominal Discharge Current (In) Test". Three (3) x 6 kV/ 3 kA impulse surges shall be applied with the sample connected to the rated voltage. The surge shall be initiated at a phase angle of 90 \pm 10 degrees. Following the testing of In, the same sample shall be subjected to the repeated VPR test.

判定标准：In 测试前量测的“实测限制电压(MLV)”平均值不可大于 VPR 值，且任一个别的测量值不可超过 VPR 值的 10%。在 In 测试后，每只样品在做重复 VPR 测试时的平均 MLV 值不可超出同一只样品最初做 VPR 测试时平均 MLV 值的 10%。

Pass Criteria: The average "Measured Limiting Voltage (MLV)" measured prior to the In test did not exceed the VPR, nor did any individual measurement exceed the VPR by ten percent (10%). And the average MLV per sample during the repeated VPR test after the In test did not deviate from the average MLV for the same sample during the initial VPR test by greater than ten percent (10%).

7.4 标称放电电流试验 Nominal Discharge Current Test

在“电压保护额定值(VPR)”测试中已进行 6 kV/3 kA 最初复合波测试的电涌保护器应接着承受 15 次(15) x 8/20 μ s 短路电流电涌。在施加此电涌电流波时，样品不加交流电。施加 15 次电涌时应分成 3 个序次，每个序次 5 次电涌。在每次施加电涌后的 1 秒钟之内必须施加 MCOV 60 \pm 15 秒。每个序次 5 次电涌施加后，样品应停留 30 \pm 5 分钟。第 15 次电涌施加后，应重新施加 MCOV 至少 15 分钟。

The same samples that were subjected to the initial 6 kV/3 kA combination wave in the "Voltage Protection Rating (VPR)" Test, shall then be subjected to fifteen (15) x 8/20 short circuit current surges. During the application of these surges the samples are unenergized. Surges shall be applied in three groups of five surges. Within 1 second after the application of each surge, the specified MCOV shall be applied for 60 seconds \pm 5 seconds. After each group of 5 surges, the samples shall rest for 30 minutes \pm 5 minutes. After the 15th surge, the MCOV shall be re-applied for at least 15 minutes.

判定标准：产品在测试中与测试后不能有可见可闻的损坏，且符合电压保护额定值(VPR)判定标准。

Pass Criteria: During and following the surge test, there shall not have visible or smelt (or both) damage, and complied to Voltage Protection Rating (VPR) pass criteria.

7.5 最大放电电流试验 Maximum Discharge Current Test

未测试过的电涌保护器应施加 1 次 8/20 μ s 短路电流电涌。在施加此电涌电流波时，样品不加交流电。在施加电涌后的 1 秒钟之内必须施加，MCOV 至少 15 分钟。

Previously untested sample shall be subjected to one 8/20 short circuit current surges. During the application of these surges the samples are unenergized. Within 1 second after the application of each surge, the specified MCOV shall be applied at least 15 minutes.

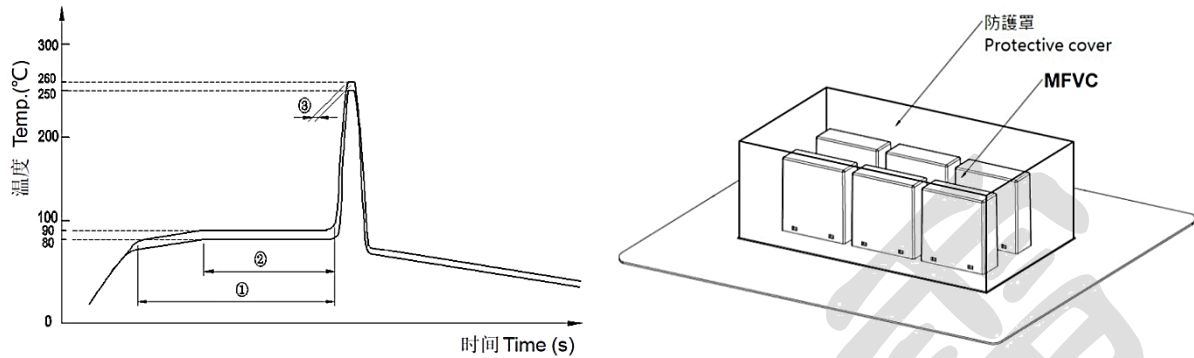
判定标准：产品在测试中与测试后不能有可见可闻的损坏，且测试前后 MOV 压敏电压的变化率 \leq 10%。

Pass Criteria: During and following the surge test, there shall not have visible or smelt (or both) damage, and the variation rate of the varistor voltage shall be less than 10%.

8 推荐焊接条件 Soldering Conditions

8.1 本产品可满足波峰焊,注意产品引脚超出 PCB 焊盘长度不要大于 3 mm,预热温度控制于 90 °C 以内,波峰温度小于 260°C,过锡时间 \leq 4s,进行焊接时建议:增加防护罩减少产品吸热、产品过波峰后加降温设施使温度快速降至室温。推荐按下面焊接曲线图设置:

The product is available for wave soldering, the length of exposed pins should be less than 3 mm and do keep the preheat temperature below 90°C. soldering temperature should be less than 260°C, tinning time should be less than 4s, During wave soldering, a protective cover can be applied to protect the product from the heat, or after wave soldering cooling equipment is recommended to rapidly reduce the product to room temperature. Recommend as following graph.



① 预热时间 Preheat time : (① < 150 s ② < 100 s) ③过锡时间 Dip time \leq 4 s
以上曲线仅供参考 This curve is our recommendation and reference only

8.2 如采用烙铁焊接,请注意烙铁温度与焊接时间,推荐焊接条件为:

If you use iron to weld, please pay attention to the iron temperature and soldering time :

| 项目 Item | 条件 Condition |
|---|---------------|
| 烙铁头温度 Iron Temperature | 350 °C (Max.) |
| 焊接时间 Soldering Time | 4 s (Max.) |
| 焊锡点位置离产品底部 Space Between Soldering Point and the Bottom of Product | 2 mm (Min.) |

9 注意事项 Important Note

9.1 该产品为内置低熔点合金型脱扣装置的压敏电阻,当使用波峰焊或手工焊接工艺时,生产前应该做充分前期工艺验证,预防内部低温合金受热冲击损伤。

The MOV contains a low melting point alloy type thermal-link inside. When waving soldering or hand soldering applied, the earlier stage process verification should be carried to avoid the thermal-link damaged by thermal shock.

9.2 装配时不要用丙酮等溶剂清洗本产品,以免破坏本产品的封装层。

When assembly, please don't use acetone and other solvents to clean products, so as not to destroy enclosure.

9.3 装配时应避免出现如敲击等作业方式,避免造成本产品出现机械损伤。

When assembly, please avoid knocking and such practices, so as not to make mechanical damage on products.

9.4 安装时若是弯折引脚可能导致内部结构损坏,产品将失去质量保证。若有弯折引脚需求可定制化

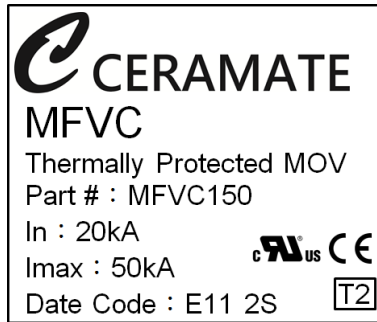
Bending of bottom leads during installation may cause internal damage and will void manufacturer's product warranty. Bending of bottom leads requirements could be customized.

9.5 产品应用系统中出现的暂态过电压应小于 UT,否则需进行其他设计以避免暂态过电压下的失效。

The temporary overvoltage value in product application system should be less than UT, if not some other designs are needed to avoid failure which caused by the temporary overvoltage.

10 标示及包装 Marking and Package

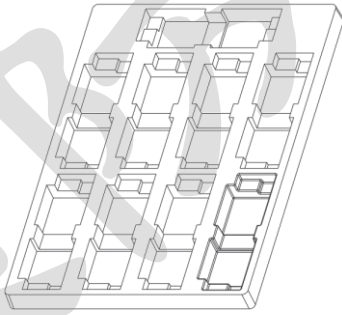

10.1 本体标示 Product Body Marking:



10.2 包装标签 Package Label:

- (a). 产品编号 ID No.
- (b). 品名规格 Part No.
- (c). 品种 Model
- (d). 批号 Lot No.
- (e). 数量 Quantity
- (f). 生产周期 Date Code

10.3 包装 Packaging

| | |
|--|--|
| <p>塑料泡壳 Plastic Tray (345×245×20mm) 18 PCS/ Plastic Tray</p> |  |
| <p>外箱 Outside Box (350×260×150mm) 126 PCS/ Carton</p> |  |