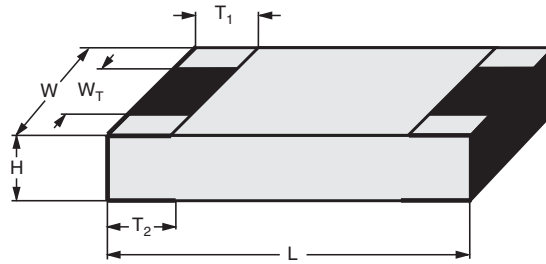
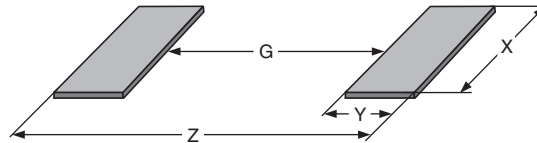


DIMENSIONS



| DIMENSIONS - Chip fuse types, mass and relevant physical dimensions | | | | | | | |
|---|-------------------|-----------------|-------------|-------------|---------------------|---------------------|-----------|
| TYPE | H (mm) | L (mm) | W (mm) | WT (mm) | T ₁ (mm) | T ₂ (mm) | MASS (mg) |
| MFU 0402 | 0.32 ± 0.07 | 1.0 ± 0.05 | 0.5 ± 0.05 | > 75 % of W | 0.2 + 0.1/- 0.15 | 0.2 ± 0.1 | 0.65 |
| MFU 0603 | 0.45 + 0.1/- 0.05 | 1.55 ± 0.05 | 0.85 ± 0.1 | > 75 % of W | 0.3 + 0.15/- 0.2 | 0.3 + 0.15/- 0.2 | 1.9 |
| MFU 0805 | 0.45 + 0.1/- 0.05 | 2.0 ± 0.1 | 1.25 ± 0.15 | > 75 % of W | 0.4 + 0.1/- 0.2 | 0.4 + 0.1/- 0.2 | 4.7 |
| MFU 1206 | 0.55 ± 0.1 | 3.2 + 0.1/- 0.2 | 1.6 ± 0.15 | > 75 % of W | 0.5 ± 0.25 | 0.5 ± 0.25 | 9.5 |

SOLDER PAD DIMENSIONS



| RECOMMENDED SOLDER PAD DIMENSIONS | | | | | | | | |
|-----------------------------------|----------------|--------|--------|--------|------------------|--------|--------|--------|
| TYPE | WAVE SOLDERING | | | | REFLOW SOLDERING | | | |
| | G (mm) | Y (mm) | X (mm) | Z (mm) | G (mm) | Y (mm) | X (mm) | Z (mm) |
| MFU 0402 | - | - | - | - | 0.35 | 0.55 | 0.55 | 1.45 |
| MFU 0603 | 0.55 | 1.10 | 1.10 | 2.75 | 0.65 | 0.70 | 0.95 | 2.05 |
| MFU 0805 | 0.80 | 1.25 | 1.50 | 3.30 | 0.90 | 0.90 | 1.40 | 2.70 |
| MFU 1206 | 1.40 | 1.50 | 1.90 | 4.40 | 1.50 | 1.15 | 1.75 | 3.80 |

Note

- The given solder pad dimensions reflect the considerations for board design and assembly as outlined e.g. in standards IEC 61188-5-x, or in publication IPC-7351. They do not guarantee any supposed thermal properties, particularly as these are also strongly influenced by many other parameters.



| MFU 0402 RATING - Very quick acting (FF) | | | | | | | | | | |
|---|------------|------------------------------|---------------|---|---|---|----------------------|--------------------|----------|-------------------------------|
| SIZE | FUSE CHAR. | RATED CURRENT ⁽¹⁾ | RATED VOLTAGE | PRE-ARCING ⁽²⁾ I^2t at $10 \times I_R$ | VOLT. DROP ⁽²⁾ at $1 \times I_R$ | COLD RESIS ⁽²⁾ at $0.1 \times I_R$ | BREAKING CAPACITY DC | MARK. | APPROVAL | PART NUMBER ⁽³⁾⁽⁴⁾ |
| 0402 | FF | 500 mA ⁽⁵⁾ | 32 V | 0.0009 A ² s | 368 mV | 560 mΩ | 50 A at 32 V | - | UL | MFU0402FF00500E500 |
| | | 630 mA ⁽⁵⁾ | 32 V | 0.0014 A ² s | 331 mV | 400 mΩ | 50 A at 32 V | - | UL | MFU0402FF00630E500 |
| | | 750 mA ⁽⁵⁾ | 32 V | 0.0020 A ² s | 275 mV | 280 mΩ | 50 A at 32 V | - | UL | MFU0402FF00750E500 |
| | | 800 mA | 32 V | 0.0023 A ² s | 231 mV | 220 mΩ | 50 A at 32 V | - | UL | MFU0402FF00800E500 |
| | | 1.0 A | 32 V | 0.0028 A ² s | 184 mV | 140 mΩ | 50 A at 32 V | - | UL | MFU0402FF01000E500 |
| | | 1.25 A | 32 V | 0.0039 A ² s | 159 mV | 97 mΩ | 50 A at 32 V | - | UL | MFU0402FF01250E500 |
| | | 1.5 A | 32 V | 0.0059 A ² s | 146 mV | 74 mΩ | 50 A at 32 V | - | UL | MFU0402FF01500E500 |
| | | 1.6 A | 32 V | 0.0065 A ² s | 136 mV | 65 mΩ | 50 A at 32 V | - | UL | MFU0402FF01600E500 |
| | | 1.75 A | 32 V | 0.0077 A ² s | 124 mV | 54 mΩ | 50 A at 32 V | - | UL | MFU0402FF01750E500 |
| | | 2.0 A | 32 V | 0.0101 A ² s | 115 mV | 44 mΩ | 50 A at 32 V | - | UL | MFU0402FF02000E500 |
| | | 2.5 A | 32 V | 0.0157 A ² s | 107 mV | 33 mΩ | 50 A at 32 V | - | UL | MFU0402FF02500E500 |
| | | 3.0 A | 32 V | 0.0227 A ² s | 95 mV | 24 mΩ | 50 A at 32 V | - | UL | MFU0402FF03000E500 |
| 3.15 A | 32 V | 0.0250 A ² s | 90 mV | 22 mΩ | 50 A at 32 V | - | UL | MFU0402FF03150E500 | | |

Notes

- (1) Other values of rated current are available on request
- (2) Typical values
- (3) For packages with 1000 pieces, please use for packaging E1 instead of E5
- (4) For packages with 10 000 pieces, please use for packaging E0 instead of E5
- (5) Available on request

| MFU 0603 RATING - Very quick acting (FF) | | | | | | | | | | |
|---|------------|------------------------------|---------------|---|---|---|----------------------|--------------------|----------|-------------------------------|
| SIZE | FUSE CHAR. | RATED CURRENT ⁽⁶⁾ | RATED VOLTAGE | PRE-ARCING ⁽⁷⁾ I^2t at $10 \times I_R$ | VOLT. DROP ⁽⁷⁾ at $1 \times I_R$ | COLD RESIS ⁽⁷⁾ at $0.1 \times I_R$ | BREAKING CAPACITY DC | MARK. | APPROVAL | PART NUMBER ⁽⁸⁾⁽⁹⁾ |
| 0603 | FF | 500 mA | 32 V | 0.0009 A ² s | 361 mV | 550 mΩ | 50 A at 32 V | F | UL/IEC | MFU0603FF00500P500 |
| | | 630 mA | 32 V | 0.0014 A ² s | 331 mV | 400 mΩ | 50 A at 32 V | CT | UL | MFU0603FF00630P500 |
| | | 750 mA | 32 V | 0.0020 A ² s | 258 mV | 262 mΩ | 50 A at 32 V | G | UL | MFU0603FF00750P500 |
| | | 800 mA | 32 V | 0.0023 A ² s | 249 mV | 237 mΩ | 50 A at 32 V | CV | UL | MFU0603FF00800P500 |
| | | 1.0 A | 32 V | 0.0028 A ² s | 223 mV | 170 mΩ | 50 A at 32 V | H | UL/IEC | MFU0603FF01000P500 |
| | | 1.25 A | 32 V | 0.0039 A ² s | 180 mV | 110 mΩ | 50 A at 32 V | J | UL | MFU0603FF01250P500 |
| | | 1.5 A | 32 V | 0.0059 A ² s | 155 mV | 79 mΩ | 50 A at 32 V | K | UL | MFU0603FF01500P500 |
| | | 1.6 A | 32 V | 0.0065 A ² s | 159 mV | 76 mΩ | 50 A at 32 V | EF | UL/IEC | MFU0603FF01600P500 |
| | | 1.75 A | 32 V | 0.0077 A ² s | 138 mV | 60 mΩ | 50 A at 32 V | L | UL | MFU0603FF01750P500 |
| | | 2.0 A | 32 V | 0.0101 A ² s | 150 mV | 57 mΩ | 50 A at 32 V | N | UL/IEC | MFU0603FF02000P500 |
| | | 2.5 A | 32 V | 0.0157 A ² s | 121 mV | 37 mΩ | 50 A at 32 V | O | UL | MFU0603FF02500P500 |
| | | 3.0 A | 32 V | 0.0227 A ² s | 126 mV | 32 mΩ | 50 A at 32 V | P | UL | MFU0603FF03000P500 |
| | | 3.15 A | 32 V | 0.0250 A ² s | 120 mV | 29 mΩ | 50 A at 32 V | EL | UL/IEC | MFU0603FF03150P500 |
| | | 3.5 A | 32 V | 0.0308 A ² s | 106 mV | 23 mΩ | 50 A at 32 V | R | UL | MFU0603FF03500P500 |
| | | 4.0 A | 32 V | 0.0403 A ² s | 100 mV | 19 mΩ | 50 A at 32 V | S | UL | MFU0603FF04000P500 |
| 5.0 A | 32 V | 0.2275 A ² s | 85 mV | 13 mΩ | 50 A at 32 V | T | UL | MFU0603FF05000P500 | | |

Notes

- (6) Other values of rated current are available on request
- (7) Typical values
- (8) For packages with 1000 pieces, please use for packaging P1 instead of P5
- (9) For packages with 20 000 pieces, please use for packaging PW instead of P5