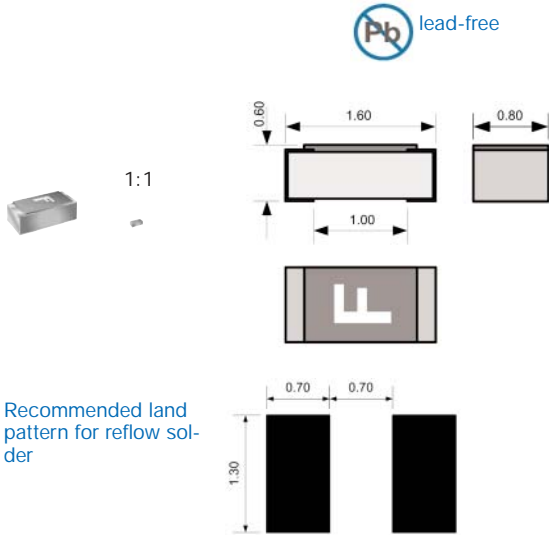
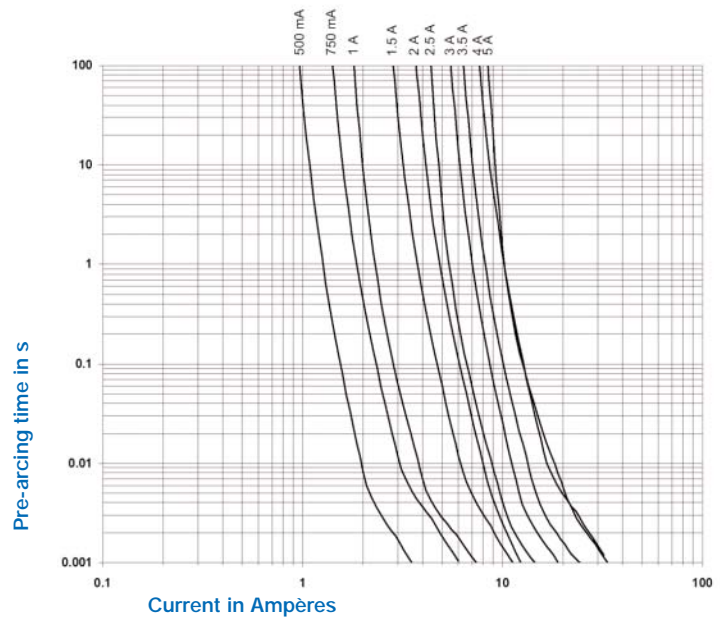


Surface Mount Fuses
Type USF 0603
super-quick-acting FF

directly solderable on printed circuit boards



Typical time/current characteristic curves at 23°C



Pre-arcing time/current characteristic (at T_a 23 °C)

| Rated current I_n | $n \cdot I_n$ | |
|---------------------|---------------|---------------|
| | $1 \cdot I_n$ | $2 \cdot I_n$ |
| 500 mA – 5 A | min. 4 h | max. 60 s |

Standards

UL 248-14
CSA 248-14

Approvals



*Free of CCC (DFC)

| Order No | Rated current I_n | Marking | Rated voltage U_n VAC / VDC | Breaking capacity | Voltage drop at I_n | | Cold resistance typ. mOhm | Pre-arcing I^2t at $8xI_n$ typ. A ² s | Approvals | |
|--------------|---------------------|---------|----------------------------------|---------------------------------------|-----------------------|---------|------------------------------|---|-----------|------|
| | | | | | typ. mV | max. mV | | | UL | CCC* |
| 3412.0113.XX | 500 mA | F | 32 / 32 | 50 A/32 VAC at power factor > 0.95 | 101 | 120 | 157 | 0.02 | • | • |
| 3412.0114.XX | 750 mA | G | 32 / 32 | | 100 | 120 | 90 | 0.04 | • | • |
| 3412.0115.XX | 1 A | H | 32 / 32 | | 98 | 120 | 75 | 0.06 | • | • |
| 3412.0117.XX | 1.5 A | K | 32 / 32 | | 73 | 120 | 44 | 0.14 | • | • |
| 3412.0119.XX | 2 A | N | 32 / 32 | | 70 | 120 | 27.5 | 0.25 | • | • |
| 3412.0120.XX | 2.5 A | O | 32 / 32 | 50 A/32 VDC | 75 | 120 | 23.5 | 0.40 | • | • |
| 3412.0121.XX | 3 A | P | 32 / 32 | | 80 | 120 | 18.6 | 0.58 | • | • |
| 3412.0122.XX | 3.5 A | R | 32 / 32 | | 85 | 120 | 16 | 0.80 | • | • |
| 3412.0123.XX | 4 A | S | 32 / 32 | | 80 | 120 | 12.5 | 1.10 | • | • |
| 3412.0124.XX | 5 A | T | 32 / 32 | | 70 | 120 | 10 | 1.50 | • | • |

.XX Packaging index

All measurements are carried out on a test board referring to IEC 60127-4 with 5 mm track.

Technical data and packaging

Type USF 0603

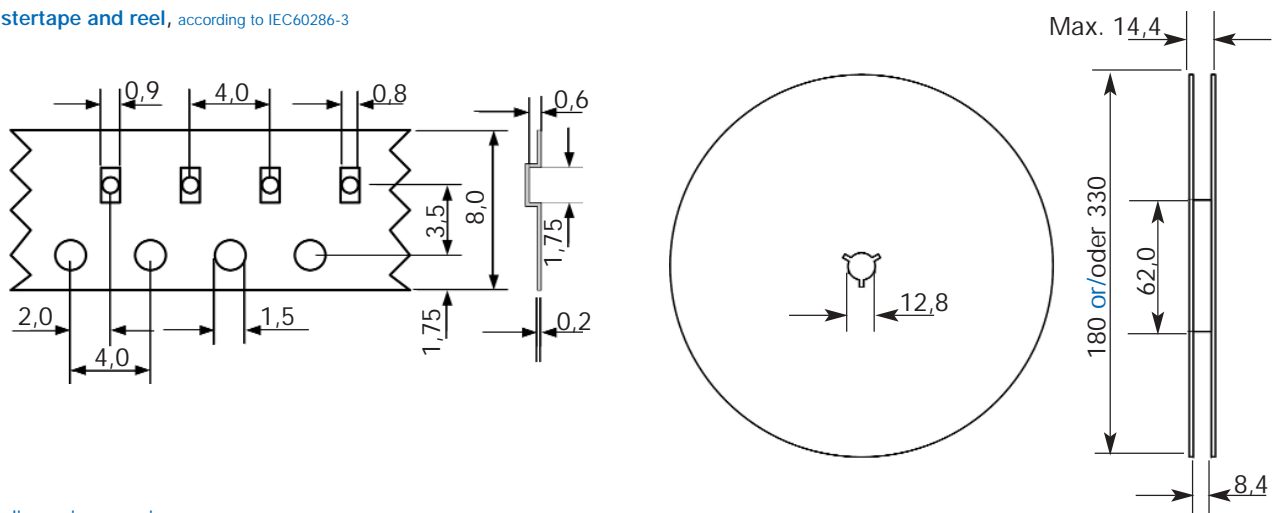
Additional technical data

| | | |
|---|---|---|
| Ambient temperature max. T_a | -55 °C to +90 °C | |
| Recommended continuous operating current at 23 °C | $0,7 \cdot I_n$ | |
| Climatic category | 55/090/21 according to IEC 60068-1 | |
| Solderability (Reflow- soldering) | 235 °C, 2 sec. (215 °C, 3 sec.) according to IEC 60068-2-58 | |
| Soldering heat resistance | 260 °C, 10 sec., according to IEC 60068-2-58 | |
| Fuse-link temperature rise | ≤ 75 K (UL/CSA) | trackwidth: 5 mm according to IEC 60127-4 |
| Storage temperature max. | 40 °C at 70% r. H. / r. F. | |
| Materials Housing Terminals | Glass epoxy, flammability class UL94V-0 Cu / Sn | |
| Net weight pieces % | 0,12 g | |

Packaging

| Tape | Type USF 0603 |
|--|---------------|
| Taped and reeled 1000 pieces / reel diameter 180 mm | 3412.XXXX.22 |
| Taped and reeled 5000 pieces / reel diameter 180 mm | 3412.XXXX.24 |
| Taped and reeled 15000 pieces / reel diameter 330 mm | 3412.XXXX.26 |

Blistertape and reel, according to IEC60286-3



All dimensions are in mm