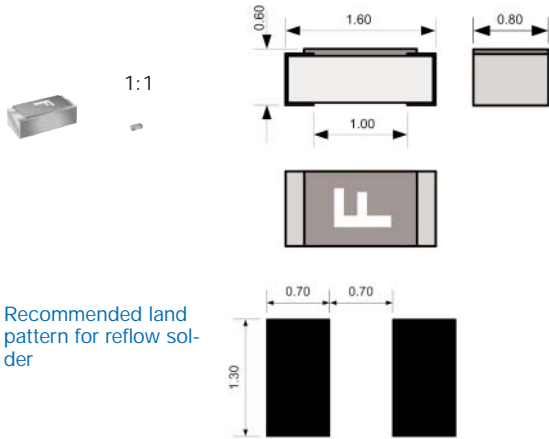


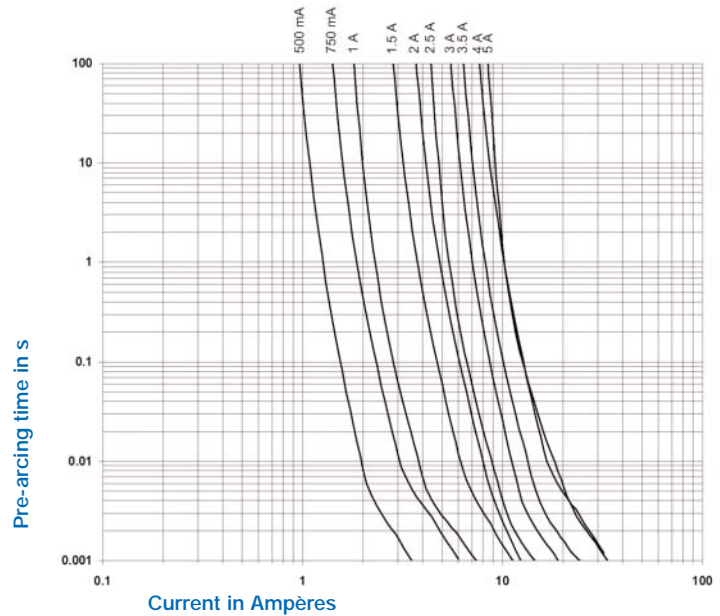
Surface Mount Fuses
Type USF 0603
super-quick-acting FF

directly solderable on printed circuit boards



Recommended land pattern for reflow solder

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 US	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

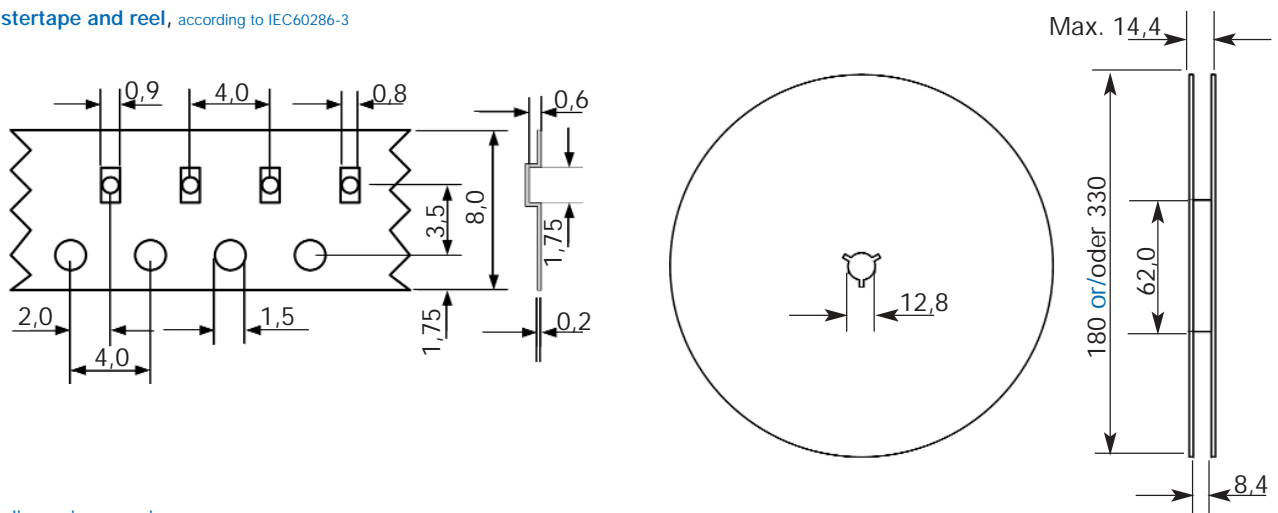
Additional technical data

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