

FUSES

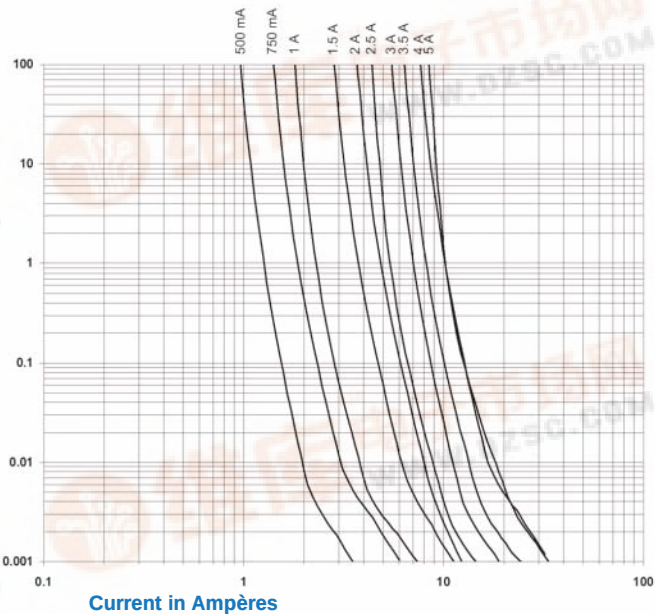
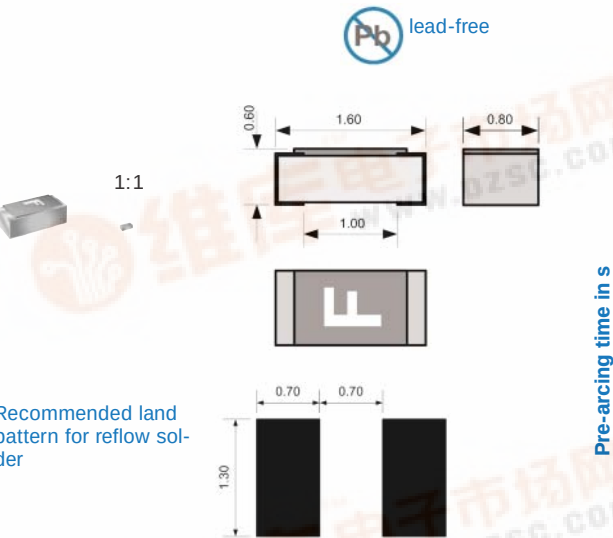
Non resettable fuses

USF 0603

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 · I _n	
	1 · I _n	2 · 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	Breaking capacity	Voltage drop at I _n		Cold resistance	Pre-arcing I ² t at 8xI _n	Approvals	
					typ. mV	max. mV	typ. mOhm	typ. A ² s		CCC*
			VAC / VDC							
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

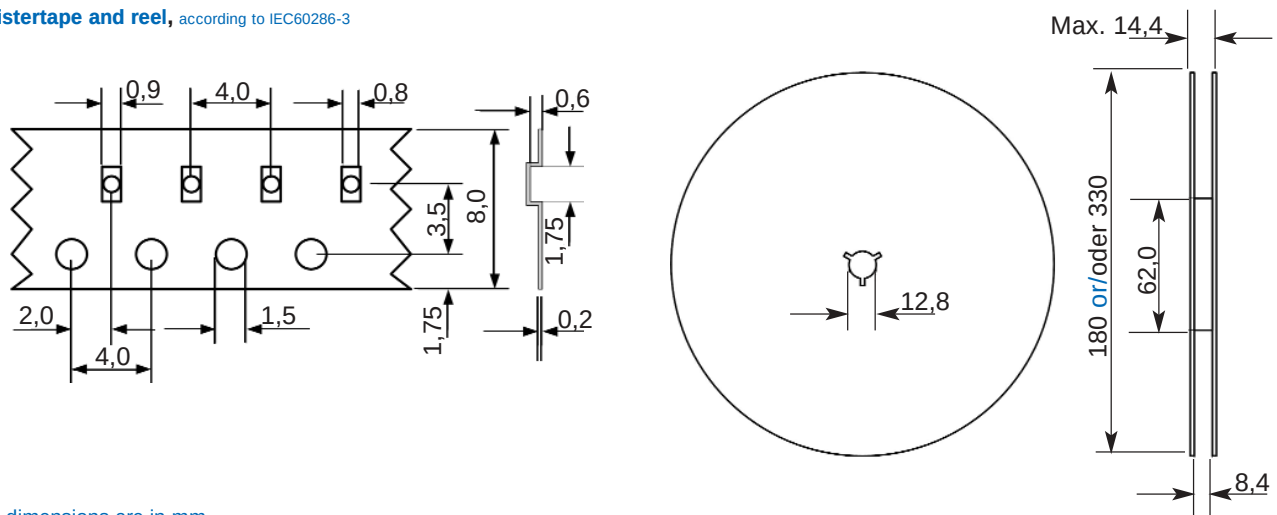
Additional technical data

Ambient temperature max. T _a	-55 °C to +90 °C	
Recommended continuous operating current at 23 °C	0,7 · 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