





















Style	Surface Mount Fuse	Surface Mount Fuse	Surface Mount Fuse	Surface Mount Fuse
Dimensions	1.6 x 0.8 mm	3.2 x 1.6 mm	3.2 x 1.6 mm	10.1 x 3 mm
Product picture				
Type	<b>USF 0603</b>	<b>USF 1206</b>	<b>MGA</b>	<b>UMT 250</b>
Rated Voltage	32 VAC/DC	32/63 VAC/DC	32 - 125 VAC/DC	250/125 VAC/DC
Rated Current	0.5 - 5 A	0.375 - 4 A	0.2 - 5 A	0.315 - 4 A
Breaking Capacity	50 A	50 A	50 A	200 A
Comment			ESA approved type on request	
Characteristic	Super-Quick-Acting FF	Super-Quick-Acting FF	Super-Quick-Acting FF	Time-Lag T
Approvals	 CCC	 CCC	 CCC	      
Catalogue page	xxx	xxx	xxx	xxx

Style	Surface Mount Fuse	Surface Mount Fuse	Surface Mount Fuse	Surface Mount Fuse
Dimensions	7 x 2 mm	7 x 2.54 mm	7 x 2 mm	7 x 2.54 mm
Product picture				
Type	<b>172876</b>	<b>MKF</b>	<b>MSB</b>	<b>MKT</b>
Rated Voltage	63 - 125 VAC/DC	63 - 125 VAC/DC	65 - 125 VAC/DC	65 - 125 VAC/DC
Rated Current	0.063 - 15 A	0.063 - 15 A	0.75 - 15 A	2 - 15 A
Breaking Capacity	300 A	300 A	50 A - 150 A	50 A - 150 A
Comment				
Characteristic	Quick-Acting F	Quick-Acting F	Time-Lag T	Time-Lag T
Approvals				
Catalogue page	xxx	xxx	xxx	xxx

Style	Surface Mount Fuse	Surface Mount Fuse	Surface Mount Fuse	Surface Mount Fuse
Dimensions	7.4 x 3.1 mm	12 x 5.2 mm	7.4 x 3.1 mm	12 x 5.2 mm
Product picture				
Type	<b>OMF 63</b>	<b>OMK 63</b>	<b>OMF 125</b>	<b>OMK 125</b>
Rated Voltage	63 VAC/DC	63 VAC/DC	125 VAC/DC	125 VAC/DC
Rated Current	0.063 - 10 A	0.063 - 5 A	0.063 - 10 A	0.063 - 5 A
Breaking Capacity	50 A	50 A	100 A	100 A
Comment				
Characteristic	Quick-Acting F	Quick-Acting F	Quick-Acting F	Quick-Acting F
Approvals	  CCC	CCC	 CCC	CCC
Catalogue page	xxx	xxx	xxx	xxx

## USF 0603



UL 248-14 · 32 VAC/DC · Super-Quick-Acting FF



## Description

- Directly solderable on printed circuit boards

## Standards

- UL 248-14  
- CSA C22.2 no. 248.14

## Approvals

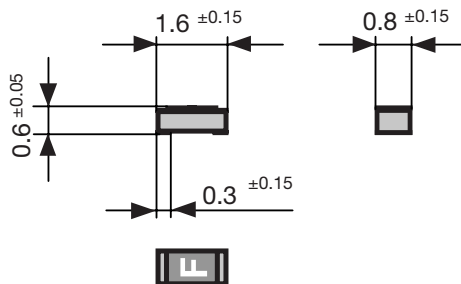
- UL File Number: E41599

## Technical Data

Rated Voltage	32 VAC/DC
Rated Current	0.5 - 5 A
Breaking Capacity	50 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/090/21 acc. to IEC 60068-1
Material: Housing	Epoxyd Glass, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.0016 g
Stock Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Letter (see variants)

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

## Dimensions

Length  $\bar{H}$  1.6 mm









Solder pads

## Pre-Arcing Time

Rated Current $I_n$	1.0 x $I_n$ min.	2.0 x $I_n$ max.
0.5 A - 5 A	4 h	60 s

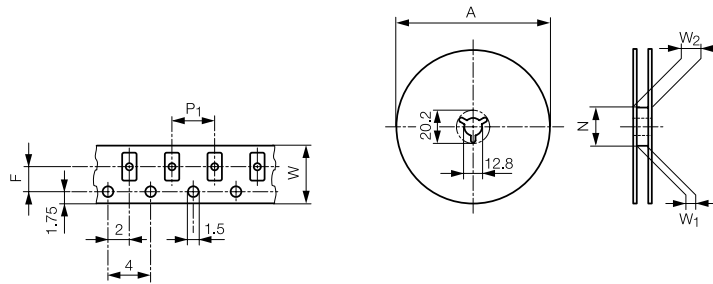
**USF 0603**

## Variants

Order Number	Rated Current [A]	Rated Voltage [V]	Marking	Breaking Capacity	Voltage Drop 1.0 In max [mV]	Voltage Drop 1.0 In typ [mV]	Cold Resistance typ [mΩ]	Melting I <sup>2</sup> t 8.0 In typ [A <sup>2</sup> s]	       
3412.0113.xx	0.5	32	F	1)	120	101	157	0.02	● ●
3412.0114.xx	0.75	32	G	1)	120	100	90	0.04	● ●
3412.0115.xx	1	32	H	1)	120	98	75	0.06	● ●
3412.0117.xx	1.25	32	K	1)	120	73	44	0.14	● ●
3412.0119.xx	1.5	32	N	1)	120	70	27.5	0.25	● ●
3412.0120.xx	2	32	O	1)	120	75	23.5	0.4	● ●
3412.0121.xx	2.5	32	P	1)	120	80	18.6	0.58	● ●
3412.0122.xx	3	32	R	1)	120	85	16	0.8	● ●
3412.0123.xx	4	32	S	1)	120	80	12.5	1.1	● ●
3412.0124.xx	5	32	T	1)	120	70	10	1.5	● ●

1) 50 A @ 32 VAC , p.f. ≥ 0.95 / 50 A @ 32 VDC

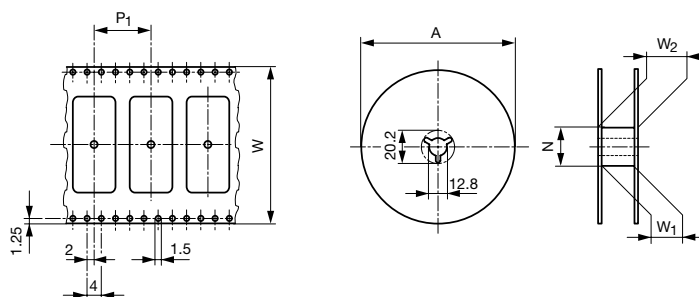
Packaging Unit	
.22	Blister Tape 18 cm Reel (1000 pcs.)
.24	Blister Tape 18 cm Reel (5000 pcs.)
.26	Blister Tape 33 cm Reel (15000 pcs.)



**Blister tape and Reel Dimensions**

according to IEC 60286-3

Type	P1 [mm]	F [mm]	W [mm]	N [mm]	W1 [mm]	W2 [mm]	A							
							750 Pcs.	1000 Pcs.	1500 Pcs.	2000 Pcs.	3000 Pcs.	5000 Pcs.	10000 Pcs.	15000 Pcs.
USF 0603	4	3.5	8	62	8.4	14.4	180 mm							
USF 1206	4	3.5	8	62	8.4	14.4	180 mm							
MGA	4	3.5	8	62	8.4	14.4	180 mm			180 mm				330 mm
UMT 250	8	11.5	24	62	24.4	30.4	330 mm							
172876	4	5.5	12	62	12.4	18.4	180 mm			330 mm				
MKF	4	5.5	12	62	12.4	18.4	180 mm [500 Pcs.]		180 mm					
MSB	4	5.5	12	62	12.4	18.4	180 mm			330 mm				
MKT	4	5.5	12	62	12.4	18.4	180 mm [500 Pcs.]		180 mm					
OMF 63	8	7.5	16	62	16.4	22.4	180 mm			330 mm				
OMK 63	8	11.5	24	62	24.4	30.4	330 mm							
OMF 125	8	7.5	16	62	16.4	22.4	180 mm			330 mm				
OMK 125	8	11.5	24	62	24.4	30.4	180 mm		330 mm					
OMT 125	8	7.5	16	62	16.4	22.4	180 mm			330 mm				
OMZ 125	8	11.5	24	62	24.4	30.4	180 mm		330 mm					
OMF 250	8	11.5	24	62	24.4	30.4	330 mm							
OMT 250	8	11.5	24	62	24.4	30.4	330 mm							
TF 600	8	11.5	24	62	24.4	30.4	330 mm							
OSU 125	8	7.5	16	62	16.4	22.4	180 mm			330 mm				
OSU 250	8	11.5	24	62	24.4	30.4	330 mm							
OMH 125	8	11.5	24	62	24.4	30.4	180 mm		330 mm					
PFNF	4	3.5	8	62	8.4	14.4	180 mm							
PFMF	8	5.5	12	62	12.4	18.4	180 mm			180 mm				
PFDF	8	7.5	16	62	16.4	22.4	360 mm							
PFSM	8/12	7.5	16	62	16.4	22.4	360 mm			360 mm				
PFHT	8/12	7.5	16	62	16.4	22.4	360 mm			360 mm				



**Blister tape and Reel Dimensions**

according to IEC 60286-3

Type	P1 [mm]	W [mm]	N [mm]	W1 [mm]	W2 [mm]	A		
						250 Pcs.	400 Pcs.	2000 Pcs.
SMD-FST	8	32	100	32.4	38.4	380 mm		
SMD-SPT	8	32	100	32.4	38.4	380 mm		
SMD-FTT	8	32	100	32.4	38.4	380 mm		
OGN-SMD	16	44	100	44.4	50.4	380 mm		
FPG7	16	56	150	56.4	62.4	380 mm		