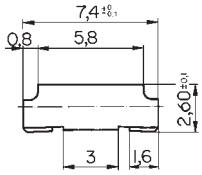
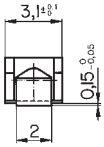
Surface Mount Fuses Type OMF 125

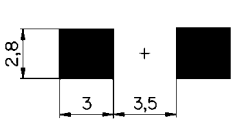
quick-acting F

available in lead-free version **NEW**
directly solderable on printed circuit boards or plugable into surface mount fuseholder

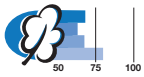
1:1

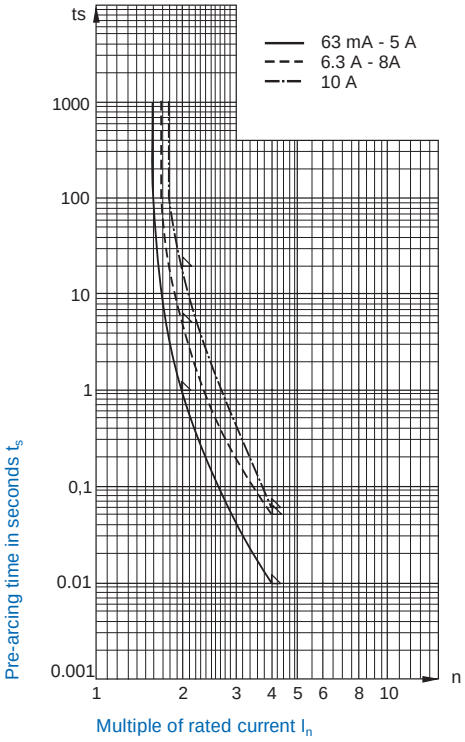






Solder pads





Standards

UL 248-14
CSA C22.2 No. 248.14

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

Rated current I_n / n · I_n	1 · I_n*	2 · I_n	4 · I_n
	min.	max.	max.
63 mA – 5 A	4 h	1 s	10 ms
6,3 – 8 A	4 h	5 s	50 ms
10 A	4 h	20 s	60 ms

* Non fusing current I_{nf}

Approvals, Patents

UL CSA

Patents in U.S. (No. 4,851,806) and in further countries

Order No.	Rated current I_n Rated voltage U_n	Breaking capacity	Voltage drop at I_n typ. mV	Sustained power dissipation at 1 · I_n typ. mW	Pre-arcing I^2t at 4 · I_n typ. A^2s	Approvals wave and reflow soldering UL	CSA
3404.0003.XX	63 mA / 125 V	100 A/125 V AC/DC p.f. / cos φ 1	2550	160	$1{,}1 \cdot 10^{-4}$	•	•
3404.0004.XX	100 mA / 125 V		1770	180	$6{,}7 \cdot 10^{-3}$	•	•
3404.0049.XX	125 mA / 125 V		1770	220	$1{,}1 \cdot 10^{-3}$	•	•
3404 0005.XX	160 mA / 125 V		1700	270	$1{,}8 \cdot 10^{-3}$	•	•
3404.0006.XX	250 mA / 125 V		990	250	$5{,}8 \cdot 10^{-3}$	•	•
3404.0043.XX	350 mA / 125 V		990	350	$7{,}6 \cdot 10^{-3}$	•	•
3404.0044.XX	375 mA / 125 V		990	370	$1{,}3 \cdot 10^{-2}$	•	•
3404.0007.XX	400 mA / 125 V		960	380	$1{,}6 \cdot 10^{-2}$	•	•
3404.0045.XX	500 mA / 125 V		350	180	$1{,}6 \cdot 10^{-2}$	•	•
3404.0008.XX	630 mA / 125 V		290	180	$2{,}0 \cdot 10^{-2}$	•	•
3404.0046.XX	750 mA / 125 V		260	200	$3{,}1 \cdot 10^{-2}$	•	•
3404.0009.XX	1 A / 125 V		220	220	$8{,}6 \cdot 10^{-2}$	•	•
3404.0010.XX	1,25 A / 125 V		220	280	$1{,}4 \cdot 10^{-1}$	•	•
3404.0047.XX	1,5 A / 125 V		200	300	$2{,}4 \cdot 10^{-1}$	•	•
3404.0011.XX	1,6 A / 125 V		200	320	$2{,}7 \cdot 10^{-1}$	•	•
3404.0012.XX	2 A / 125 V		200	400	$4{,}4 \cdot 10^{-1}$	•	•
3404.0013.XX	2,5 A / 125 V		190	480	$9{,}7 \cdot 10^{-1}$	•	•
3404.0014.XX	3 A / 125 V		190	570	1,3	•	•
3404.0048.XX	3,15 A / 125 V		190	600	1,2	•	•
3404.0015.XX	3,5 A / 125 V		140	490	1,6	•	•
3404.0016.XX	4 A / 125 V		140	560	2,1	•	•
3404.0017.XX	5 A / 125 V		140	700	2,9	•	•
3404.0018.XX	6,3 A / 125 V		110	690	14	•	•
3404.0019.XX	7 A / 125 V		105	740	16	•	•
3404.0020.XX	8 A / 125 V		100	800	20	•	•
3404.0021.XX	10 A / 125 V		80	800	54	•	•

.XX Packaging index

Additional technical data and packaging see page 60

Suitable surface mount fuseholder see page 182

OMF 125 fuse-link pre-inserted into fuseholder OMH 125 see page 61

Technical data and packaging
Types OMF 63 OMF 125 OMT 125 OMF 250 OMT 250

Additional technical data

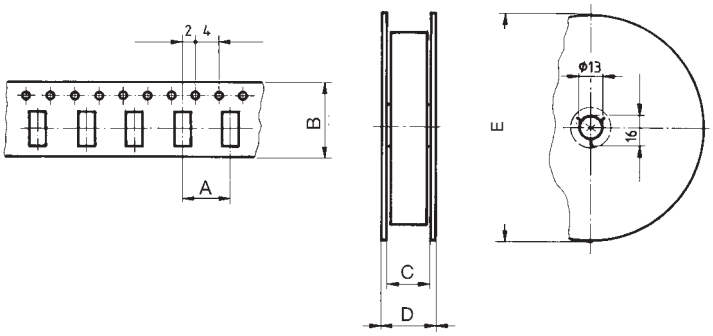
Ambient temperature max. T_a	– 40 °C to + 85 °C
Permissible continuous operating current at 23 °C	OMF 63, OMF 125, OMT 125: 0,7 × I_n OMF 250, OMT 250: 0,8 × I_n Shift of the rated current at ambient air temperatures > 23 °C see diagramm on page 204
Resistance to vibration	Frequency 10 ÷ 2000 Hz, cross-over frequency 60 Hz < 60 Hz constant Amplitude of 0,75 mm > 60 Hz constant acceleration of 100 m/s² (10 g); OMF 250, OMT 250: 196 m/s² (20 g) according to IEC 60068-2-6, Test Fc
Resistance to shock	981 m/s² (100 g), 6 ms, IEC 60068-2-27 test Ea
Climatic category	GPF according to DIN 40040
Solderability (Reflow- and Wave soldering)	235 °C / 2 sec. IEC 60068-2-58 / test Td
Soldering heat resistance	260 °C / 10 sec. IEC 60068-2-58 / test Td
Fuse-link temperature rise ≤ 75 K (UL/CSA)	trackwidth for: I_n ≤ 5 A: ≤ 5 mm I_n 6,3/7A ≥ 5 mm I_n 8/10A ≥ 10 mm
Storage temperature max.	40 °C / 70% r. H
Materials Housing Terminals	Temperature resistant plastic, flammability class UL 94V-0 Brass, tin plated
Net weight pieces %	OMF 63 and OMT 125: 10 g OMF 250 / OMT 250: 35 g

Packaging

Bag or tape	Type OMF 63	Types OMF 125 / OMT 125	Types OMF 250 / OMT 250
Bag of 100 pieces	3402.XXXX.11	3404.XXXX.11	3403.XXXX.11
Taped and reeled 750 pieces	3402.XXXX.22	3404.XXXX.22	
Taped and reeled 2000 pieces			3403.XXXX.24
Taped and reeled 3000 pieces	3402.XXXX.24	3404.XXXX.24	

Blistertape and reel

according to IEC 286-3



Types	Dimensions in mm						
	A	B	C (max.)	D (max.)	E (750)	(2000)	(3000)
OMF 63	8	16	18,4	22,4	180		330
OMF 125	8	16	18,4	22,4	180		330
OMT 125	8	16	18,4	22,4	180		330
OMF 250	8	24	26,4	30,4		330	
OMT 250	8	24	26,4	30,4		330	