Surface Mount Fuse with Clip, 4.2 x 11.3 mm, Quick-Acting F, UMK 250 = UMF 250 (Au) + UMC 250



Surface Mount Fuse with Clip

IEC 60127-4 · 250 VA	AC · 125 VDC · Quick-Acting F	See below: Approvals and Compliances			
Description - VDE/UL Approvals, UN	IF 250, UMF 250 (Au), UMC 250 , see variants	Applications - Primary protection on SMD PCBs References Fuse Kit Fuse Kit UMF 250 / UMK 250			
° , ,	of up to 200 A @ 250 VAC - 4 A @ 250 VAC and 125 VDC				
		Weblinks pdf data sheet, html datashee Stock-Check, Detailed reques	t, General Product Information, Distributor- t for product, Microsite		
Technical Data					
Rated Voltage	250 VAC, 125 VDC	Soldering Methods	Reflow		
Rated current	0.5 - 4A		Soldering Profile		
Breaking Capacity	100-200A	Solderability	245 °C / 3 sec acc. to IEC 60068-2-58		
Characteristic	Quick-Acting F	Resistance to Soldering Heat	260°C / 10 sec acc. to IEC 60068-2-58		
Mounting	PCB,SMT	Moisture Sensitivity Level	MSL 1, J-STD-020		
Admissible Ambient Air T	emp40 °C to 85 °C	Flammability	min. UL 94V-1		

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Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Housing	Ceramics
Material: Terminals	Gold-Plated Copper Alloy
Storage Conditions	0°C to 40°C, max. 70% r.h.
Product Marking	Rated current, Rated Voltage, Cha- racteristic, Breaking Capacity

	Soldering Profile
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58
Moisture Sensitivity Level	MSL 1, J-STD-020
Flammability	min. UL 94V-1
	(acc. to EIA/IS-722, Test 4.12)
Moisture Resistance Test	(acc. to EIA/IS-722, Test 4.4.3)
	10% rated current. Temperatur change
	between 25°C und 65°C at 100% rela-
	tive humidity. Duration: 24h each cycle,
	total 10 cycles
Operational Life	(acc. to EIA/IS-722, Test 4.4.1)
	1000h @ 0.60 x ln @ 70°C
Mechanical Shock	MIL-STD-202, Method 213 Condition A
Resistance to Solvents	Cleaning with common solvents
Terminal Strength	(acc. to EIA/IS-722, Test 4.5.5)
· · · · · · · · · · · · · · · · · · ·	(Deflection of board 1 mm for 1 minute)

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: UMK 250

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40027880 / 40023291
c RL [®] us	UL Approvals	UL	UL File Number: E41599

UMK 250

Product standards

Product standards that are referenced

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Organization	Design	Standard	Description				
IEC	Designed according to	IEC 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links				
IEC	Designed according to	IEC 60127-4	Miniature fuses. Part 4. Universal modular fuse-links for through-hole and surface mount types				
(H)	Designed according to	UL 248-14 / 4248-1	Low voltage fuses - Part 14: Additional fuses				
CSA Group	Designed according to	CSA22.2 No. 248.14 / No. 4248.1	Low-Voltage Fuses - Part 14: Supplemental Fuses				

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
IEC,	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

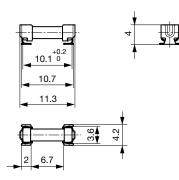
Compliances

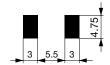
The product complies with following Guide Lines

The product complice with holowing calco Lines							
Identification	Details	Initiator	Description				
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.				
UK CA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.				
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863				
5 0	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.				
Halogen Free IIIS	Halogen Free	SCHURTER AG	SCHURTER strives to offer our customers halogen free products.				
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.				

Dimension [mm]

11.3 mm



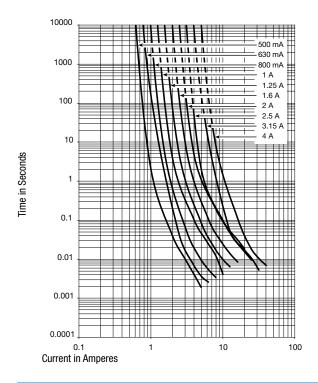


Soldering pads

Pre-Arcing Time					
Rated Current In	1.0 x In min.	1.25 x In min.	2.0 x In max.	10.0 x In min.	10.0 x In max.
0.5 A - 4.0 A	-	60 min	120 s	1 ms	10 ms

UMK 250

Time-Current-Curves



All Variants

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Vol- tage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissi- pation 1.25 I _n max [mW]	Melting I ² t 10.0 I _n typ. [A ² s]	Order Number
0.5	250	125	1)	600	430	500	0.27 •	• 3404.2463.11
0.5	250	125	1)	600	430	500	0.27 •	• 3404.2463.22
0.63	250	125	1)	500	350	500	0.9 •	• 3404.2464.11
0.63	250	125	1)	500	350	500	0.9 •	• 3404.2464.22
0.8	250	125	1)	400	300	500	0.21 •	• 3404.2465.11
0.8	250	125	1)	400	300	500	0.21 •	• 3404.2465.22
1	250	125	1)	300	250	500	0.4 •	• 3404.2466.11
1	250	125	1)	300	250	500	0.4 •	• 3404.2466.22
1.25	250	125	2)	300	220	1000	1 ●	• 3404.2467.11
1.25	250	125	2)	300	220	1000	1 ●	• 3404.2467.22
1.6	250	125	2)	300	190	1000	2.1 ●	• 3404.2468.11
1.6	250	125	2)	300	190	1000	2.1 ●	• 3404.2468.22
2	250	125	2)	300	200	1000	3.26 •	• 3404.2469.11
2	250	125	2)	300	200	1000	3.26 •	• 3404.2469.22
2.5	250	125	2)	300	160	1200	4.8 ●	• 3404.2470.11
2.5	250	125	2)	300	160	1200	4.8 •	• 3404.2470.22
3.15	250	125	2)	300	100	1500	5.17 •	• 3404.2471.11
3.15	250	125	2)	300	100	1500	5.17 •	• 3404.2471.22
4	250	125	2)	300	100	2000	9.4 ●	• 3404.2472.11
4	250	125	2)	300	100	2000	9.4 •	• 3404.2472.22

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

1) IEC: 100 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC

1) UL: 200 A @ 250 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC

2) IEC / UL: 200 A @ 250 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC

Approval Overview

UMF 250 -> Fuse with tin-plated caps, Approval Status: VDE, UL LISTED, cURus, Free of CCC, PSE JET, KTL

UMF 250 (Au) -> Fuse with gold-plated caps, Approval Status: VDE Mark and cURus

UMC 250 -> Clip, Approval Status: VDE UG Mark and cURus

UMK 250 = UMF 250 (Au) + UMC 250

UMK 250

Rated Cur-	Rated Vol-	Rated Vol-	Breaking	Voltage Drop	Voltage Drop	Power Dissi-	Melting I ² t	Order Number
rent [A]	tage [VAC]	tage [VDC]	Capacity	1.0 I _n max.	1.0 I _n typ.	pation 1.25 In	10.0 l _n typ. 🖉 🖓	116
					[mV]	max [mW]	[A ² s]	00

There is no approval existing for the combination fuse and clip UMK 250, but the fuse and the clip are fully approved independently at VDE/UL. See details above.

In the reflow soldering process, the fuse must have gold-plated caps, otherwise fuse and clip would be soldered together. For fuse replacement in the field, a standard UMF 250 fuse with tin-plated caps can be used.

It is not allowed to replace higher rated current than 4 A in the clip.

Packaging Unit	.xx = .11	100 pcs. in tape in ESD-plastic bag
acc. IEC 60286-3 Type 2a	.xx = .22	1000 pcs. in tape [W: 24mm and P1: 8mm] on reel [A: 33cm]

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 SFT-125MA
 TF16SN2.00TTD
 TR/3216LR-500MA
 CCP2B20TTE
 FCC16501ABTP

 FHC16322ADTP
 0308.250UR
 0308.375UR
 0308.500UR
 0308.750UR
 030801.5UR
 03081.25UR
 F0603G0R03FNTR
 SKY87604-11

 3404.0110.22
 SEF 0.375A 125V (G)
 1211015
 S1206-F-3.0A
 9321315278
 S0603-F-4.0A
 SMT1315AP
 0603TD-4A
 1240FH-30A

 R451003.L
 R451.500L
 R451001.L
 3-103-119
 3-103-123
 3-103-127
 0154002.DRL
 0154.500DRL
 189140.1,25
 189140.0,8

 189140.0,4
 189140.0,63
 189140.0,25
 0468003.WR
 0494001.NRHF
 0494002.NRHF
 0494003.NRHF
 0494003.SNRHF

 0494.250NRHF
 0494.500NRHF
 CF06V3T1R60
 CF06V3T2R50
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 049403.SNRHF