



Properties	Applications
<ul style="list-style-type: none"> * Lead free, RoHS conformity * Halogen free * Time delay in a small size * High operating temperature * High surge wave resistance * Excellent environmental integrity * Plane surface 	<ul style="list-style-type: none"> * Led power supplies * High voltage DC current sources up to 350V * High efficiency switching power supplies * DC / DC converter * Brushless fan controls * IT equipment * Measurement / Sensors and Interfaces



Article no.	Irat A	Voltage drop 1,0 x Irat max. mV	Power dissipation 1,25 x Irat max. W	Melting Integral 10 x Irat nominal A ² s	Cold- resistance 0,1 x Irat nominal Ω	Breaking capacity		 UMF (VDE) approved License no.40045183
						250 V AC	350V DC L/R=1ms	
F210 0500	0,500	130	0,20	0,45	0,1860	150A	100A	
F210 0630	0,630	120	0,20	0,85	0,1440	150A	100A	
F210 0800	0,800	115	0,20	1,4	0,1090	150A	100A	
F210 1100	1,000	100	0,20	2,9	0,0680	150A	100A	✓
F210 1125	1,250	100	0,25	5,0	0,0600	150A	100A	✓
F210 1160	1,600	90	0,38	9,0	0,0380	150A	100A	✓
F210 1200	2,000	90	0,45	9,5	0,0320	150A	100A	✓
F210 1250	2,500	90	0,58	15	0,0250	150A	50A	
F210 1315	3,150	85	0,69	25	0,0210	150A	50A	✓
F210 1400	4,000	85	0,90	38	0,0160	100A	50A	
F210 1500	5,000	75	1,10	42	0,0110	100A	50A	
F210 1630	6,300	65	1,20	67	0,0083	100A	63A	
F210 2150	15,000	50	1,60	120	0,0022	125V / 100A	125V / 300A	

Permissible continuous operating current is ≤ 80 % at ambient temperature of 23 °C (73.4 °F). Limits for Pre-arcing Time				
Rated Current	1,25 x Irat	2,0 x Irat	10 x Irat	
250mA ... 6,3A	> 1h	< 120s	0,01 ... 0,1s	

Soldering process parameters			
Wave soldering		Reflow soldering	
Preheat temperature:	100°C - 160°C	Preheat temperature:	140°C - 165°C
Preheat time:	60 - 180s	Preheat time:	90 - 120s
Solder temperature	260°C max.	Peak temperature:	260°C max.
Dwell time:	5s	Soldering time > 200°C:	30s

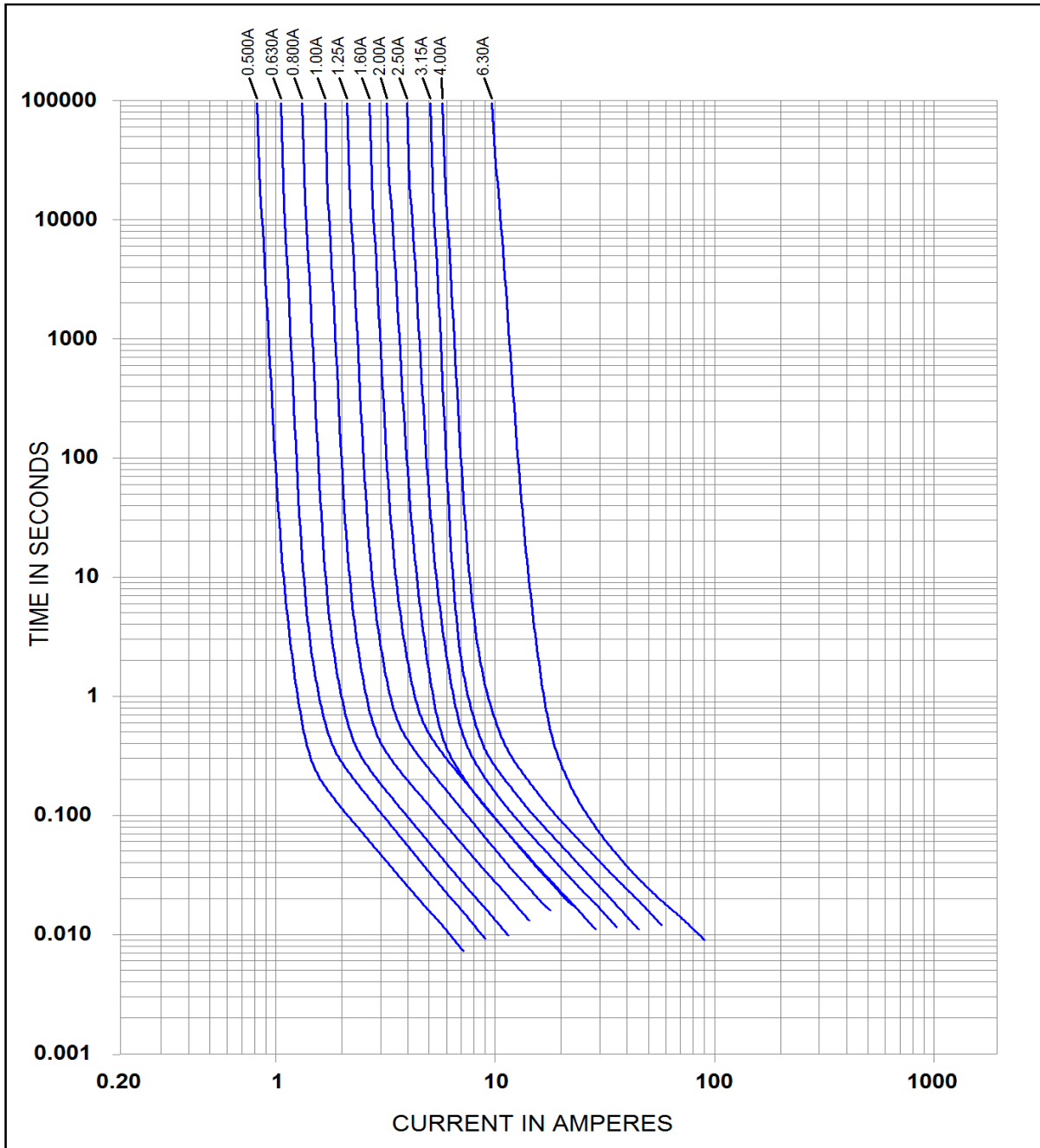
Product characteristics	
Body:	Polyamid PA 6 UL94-V0
Termination:	Sn-plating on Ni flash
Solderability:	245°C < 3s acc. to IEC 60068-2-58
Soldering heat resistance:	260°C 10s (wave) acc. to IEC 60068-2-58
Operating temperature:	-55°C - 125°C
Vibration resistance:	acc. to IEC 60068-2-6
Stock conditions:	+10°C - 60°C RH <75%
Glow wire test:	acc. to IEC 60335-1 requirements IEC 60695-2-12, IEC 60695-2-13

Average time-current (I-t) curves



F 210XXXX Series

Time Lag Fuse IEC60127-4T



Specifications are subject to change without notice.

Note: 1.00 means the number one with two decimal places.

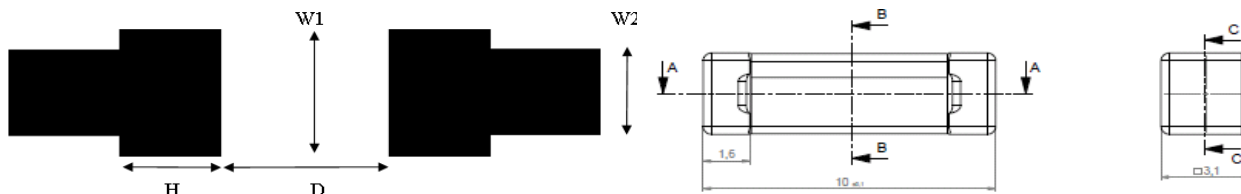
AKL V4.5 15.03.23

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Dimensions and recommended PCB layout

PCB recommended Layout for fuse series F210

Fuse dimensions (over all): (C-C) 3,1 x (B-B) 3,1 x (A-A) 10,1 mm

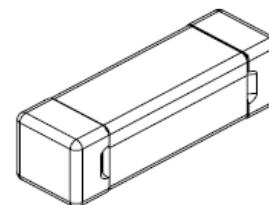


Pad dimension for IR (reflow) soldering:

Pad height (H): 2,10 mm
Pad width (W1): 3,80 mm
Pad distance (D): 6,50 mm

Pad dimension for wave soldering:

Pad height (H): 2,50 mm
Pad width (W1): 4,00 mm
Pad distance (D): 6,50 mm



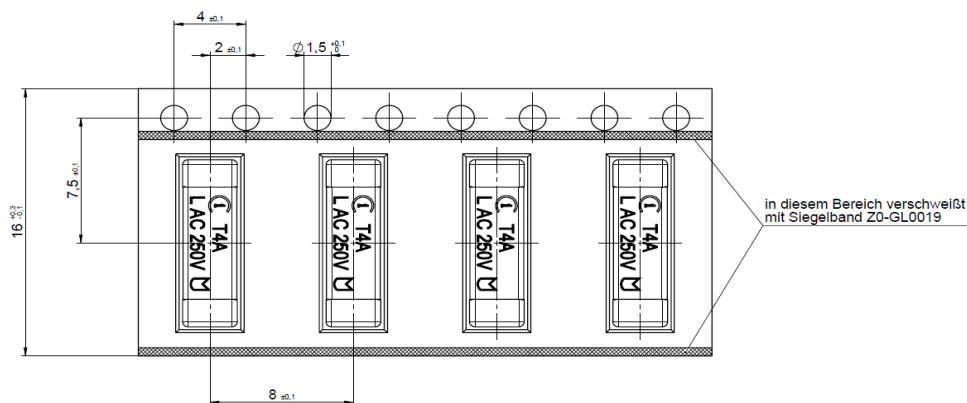
Care has to be taken to design the leading tracks to the fuse pads. Recommended min. values for DC applications with / without inductive load are:

Fuse rated current	W2 copper layer 35µm	W2 copper layer 70µm
≤ 5 A	1,27 - 2,54 mm	1,27 mm
6,3 A	3,18 mm	1,90 mm
8 A	3,80 mm	1,90 mm
10 - 15 A	3,80 mm	2,54 mm

Packaging / Dimensions / Quantities per package unit

Tape and reel: 2500 pcs on a 330mm reel per EIA Standard 481

Reel dimensions in mm:



Ordering information

F21X NNNN

X = 3: tape-and-reel (blister)

NNNN = Rated current regarding article table

Irat	amperecode
500 mA	0500
630 mA	0630
800 mA	0800
1 A	1100
1,25 A	1125
1,6A	1160
2A	1200
2,5A	1250
3,15 A	1315
4A	1400
5A	1500
6,3A	1630
15A	2150