

















Application Fields:

- Lighting: Ballast, LED Drivers
- Power: Chargers, Adapters, Power Boards
- Medical Equipment
- Indutrial Equipment
- White Goods

Clearing Time Characteristics:

W of Current Boting	Clearing Time at 25°C			
% of Current Rating	Min.	Max.		
125%	1 hour			
200%		120 seconds		
1000%	0.001 seconds	0.01 seconds		

Agency Approval:

Agency	File No.	
UL	E232989	
CQC	CQC11012065956	
KC	SU05038-12001/12002	
PSE	JD 60130890	
VDE	40034853	

Patents:

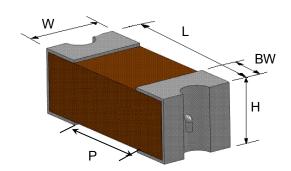
Patent numbers "ZL200810092353.3", "ZL200910007157.6", "ZL201120450579.3", "ZL201120536307.5", "ZL201220063222.4", "ZL201110123326.X".

Features:

- Extremely small size with 250 VAC rating
- Surface mount fuses in AC applications
- Excellent inrush current withstanding capability
- Fiberglass enforced epoxy fuse body
- Copper termination with nickel and tin plating
- 100% lead-free
- Operating temperature range: -55°C to +125 °C (with derating)
- Compliant with IEC 60127-4

Shape and Dimensions:

	Inch	mm
L	0.240 ± 0.006	6.10 ± 0.15
W	0.098 ± 0.006	2.49 ± 0.15
Н	0.085 ± 0.008	2.16 ± 0.20
BW	0.053 ± 0.015	1.35 ± 0.38
Р	≥ 0.118	≥ 3.00



















Ordering Information:

Part Number	Current Rating (A)	Voltage Rating (VAC)	Interrupting Ratings	Nominal DCR (Ω)	Voltage Drop Max. (mV)	Nominal I ² t (A ² s)	Marking (Black)
MF2410F0.500TM	0.50	250		0.206	166	0.11	С
MF2410F0.630TM	0.63	250		0.148	144	0.20	S
MF2410F0.800TM	0.80	250		0.109	139	0.35	Н
MF2410F1.000TM	1.00	250	100 A @ 250 VAC	0.084	129	0.62	E
MF2410F1.250TM	1.25	250		0.065	128	1.00	F
MF2410F1.600TM	1.60	250		0.049	127	1.80	Т
MF2410F2.000TM	2.00	250		0.038	123	3.00	I

Notes:

- Resistance is measured at \leq 10% of rated current and 25 $^{\circ}$ C ambient.
- Voltage drop is measured at 100% of rated current.
- Melting l²t is calculated at 0.001 second pre-arcing time.











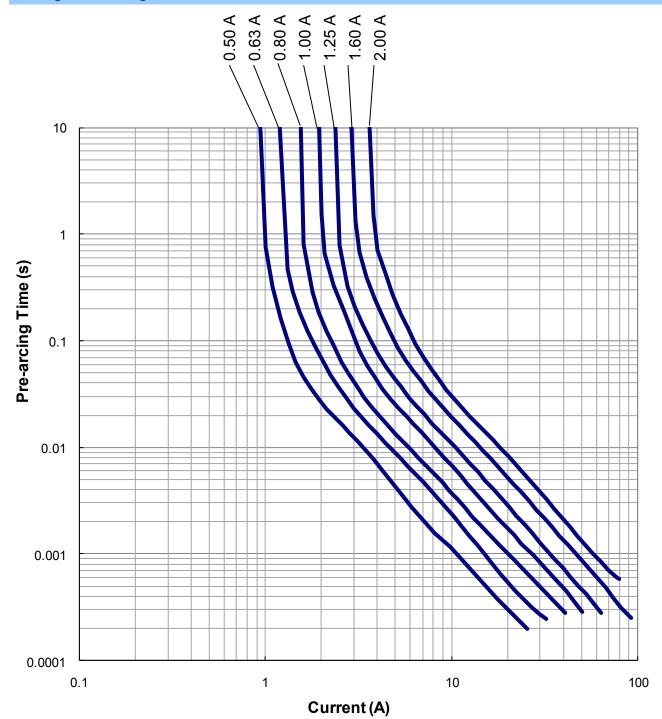






AirMatrix[®] Surface Mount Fuses MF Series, 2410 Size

Average Pre-arcing Time Curves:











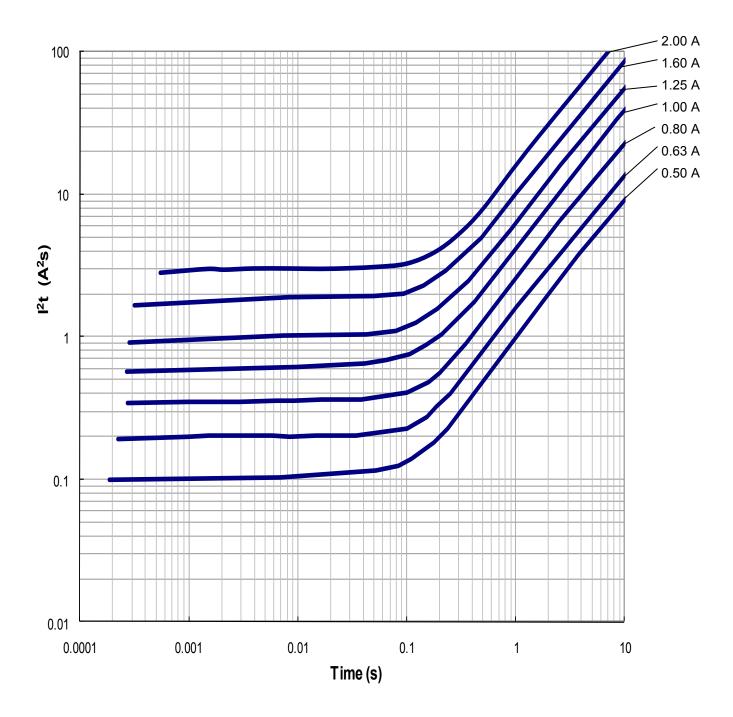






AirMatrix[®] Surface Mount Fuses MF Series, 2410 Size

Average I²t vs. t Curves:











AirMatrix® Surface Mount Fuses

Product Identification:

AF2 1.00 V125 T M

(1) (2) (3) (4) (5)

(1) Series Code: AF2

(2) Current Rating Code: 1.00—1.00A(3) Voltage Rating Code: V125—125VDC

(4) Package Code: T - Tape & Reel, B - Bulk

(5) Marking Code: M - With Marking

AF 1206 F 2.00 T M

(1) (2) (3) (4) (5) (6)

(1) Series Code: AF—AF Series, MF—MF Series

(2) Size Code: Standard EIA Chip Sizes

(3) Time/Current Characteristic: F

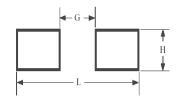
(4) Current Rating: 2.00—2.00A

(5) Package Code: T - Tape & Reel, B - Bulk

(6) Marking Code: M - With Marking

Recommended Land Pattern:

	Al	F2	AF1206		MF2410		MF1210	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
L	0.338	8.60	0.173	4.40	0.338	8.60	0.170	4.40
G	0.118	3.00	0.059	1.50	0.118	3.00	0.070	1.70
Н	0.124	3.15	0.071	1.80	0.110	2.80	0.110	2.70



Packaging:

Chip Size	Parts on 7 inch (178 mm) Reel
2410 (6125)	2,000
1210 (3225)	2,500
1206 (3216)	3,500

Storage:

The maximum ambient temperature shall not exceed 35°C . Storage temperatures higher than 35°C could result in the deformation of packaging materials.

The maximum relative humidity recommended for storage is 75%. High humidity with high temperature can accelerate the oxidation of the solder plating on the termination and reduce the solderability of the components.

Sealed vacuum foil bags with desiccant should only be opened prior to use.









AirMatrix® Surface Mount Fuses

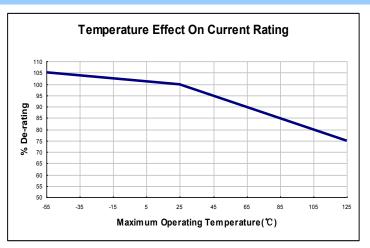
Fuse Selection and Temperature De-rating Guideline:

The ambient temperature affects the current carrying capacity of fuses. When a fuse is operating at a temperature higher than 25°C, the fuse shall be "derated".

To select a fuse from the catalog, the following rule may be followed:

Catalog Fuse Current Rating = Nominal Operating Current / 0.75 / % De-rating at the maximum operating temperature.

Example: At maximum operating temperature of 65°C, % De-rating is 90%. The nominal operating current is 4 A. The current rating for fuse selected from the catalog shall be:



Environmental Tests:

Reliability Test	Test Condition and Requirement	Test Reference
Reflow & Bend	3 reflows at 245°C followed by a 2 mm bend, 20% DCR change max. (10% for ≤ 1 A), no mechanical damage	Refer to AEM QIQ034 ,QIQ048
Solderability	245°C, 5 seconds, new solder coverage 90% minimum	MIL-STD-202 Method 208
Soldering Heat Resistance	260°C, 10 seconds, 20% DCR change max. (10% for ≤ 1 A), new solder coverage 75% minimum	MIL-STD-202 Method 210
Life	25°C, 2000 hours, 80% rated current (75% for < 1 A), voltage drop change≤ ±20%	Refer to AEM QIQ106
Thermal Shock	-65°C to +125°C, 100 cycles, 10% DCR change max., no mechanical damage	MIL-STD-202 Method 107
Mechanical Vibration	5 – 3000 Hz, 0.4 inch double amplitude or 30 G peak, 10% DCR change max., no mechanical damage	MIL-STD-202 Method 204
Mechanical Shock	1500 G, 0.5 milliseconds, half-sine shocks, 10% DCR change max., no mechanical damage	MIL-STD-202 Method 213
Salt Spray	5% salt solution, 48 hour exposure, 10% DCR change max., no excessive corrosion	MIL-STD-202 Method 101
Moisture Resistance	10 cycles, 15% DCR change max., no excessive corrosion	MIL-STD-202 Method 106





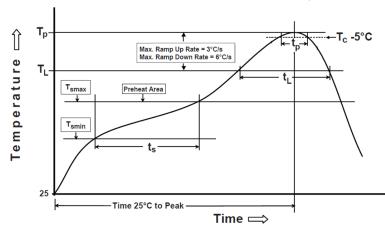




AirMatrix® Surface Mount Fuses

Soldering Temperature Profile:

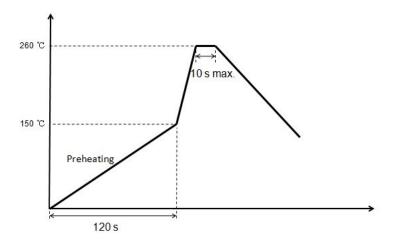
* Recommended Temperature Profile for Reflow Soldering



Profile Feature	Pb-Free Assembly
Preheat/Soak Temperature Min (T _{smin}) Temperature Max(T _{smax}) Time(t _s) from (T _{smin} to T _{smax})	150°C 200°C 60~120 seconds
Ramp-uprate (T _L to T _p)	3°C/second max.
Liquidous temperature(T _L) Time(t _L) maintained above T _L	217°C 60~150 seconds
Peak package body temperature (T _p)	260°C
Time $(t_p)^*$ within 5°C of the specified classification temperature (T_c)	30 seconds *
Ramp-down rate (T _p to T _L)	6°C/second max.
Time 25°C to peak temperature	8 minutes max.

^{*} Tolerance for peak profile temperature (Tp) is defined as a supplier minimum and a user maximum

* Recommended Temperature Profile for Wave Soldering







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