

Features Typical



- ☐ Fast acting at 250% overload current level
- ☐ Excellent inrush current withstanding capability
- ☐ Extremely thin body for space saving
- ☐ Fiberglass enforced epoxy fuse body
- ☐ Copper termination with nickel and tin plating
- ☐ Operating temperature range: -55°C to +125 °C

WCAF1206F series (Rev: C)

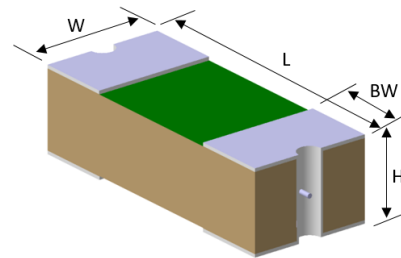
SMD Air Fuse

■ Applications

Circuit Protecting in LCD monitors, portable communication products, battery chargers, medical equipment, industrial equipment, digital products, etc.

■ Product Dimensions

	Inch	mm
L	0.126 ± 0.006	3.20 ± 0.150
W	0.063 ± 0.003	1.60 ± 0.080
H	0.042 ± 0.002	1.08 ± 0.500
BW	0.033 ± 0.0016	0.85 ± 0.040



■ Part Numbering

WC AF 1206 F 1500A

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

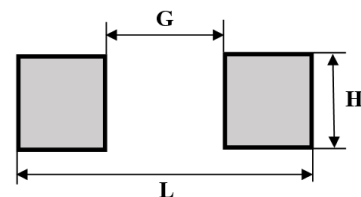
- (1) Company code: Wayon Ceramics Dept.
- (2) Product code: Air Fuse
- (3) Size code: Standard EIA Chip Size
- (4) Series code: F
- (5) Current rating code: 1500A-15A

■ Clear-Time Characteristics

% of current rating	Clear-time at 25°C	
	Min	Max
100%	4 hours	
250%		5 seconds

■ Recommended land pattern

\	1206	
	Inch	mm
L	0.173	4.40
G	0.059	1.50
H	0.071	1.80



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Specifications are subject to change without notice

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■ Electrical Characteristics

Part Number	Current Rating(A)	Voltage Rating(V)		Interrupting Rating	Nominal Cold DCR (Ω)	Nominal I²t (A²s)	Marking
		AC	DC				
WCAF1206F0100A	1.00	250	65	50A@65VDC 100A@250VAC	0.068	0.17	E
WCAF1206F0150A	1.50				0.051	0.41	G
WCAF1206F0160A	1.60				0.042	0.55	T
WCAF1206F0200A	2.00				0.034	0.90	I
WCAF1206F0250A	2.50	\		50A@65VDC	0.029	0.99	J
WCAF1206F0300A	3.00				0.023	1.91	K
WCAF1206F0315A	3.15				0.019	2.42	V
WCAF1206F0350A	3.50				0.018	2.69	L
WCAF1206F0400A	4.00				0.016	3.17	M
WCAF1206F0500A	5.00	\	32	50A@32VDC	0.014	5.79	N
WCAF1206F0630A	6.30				0.011	9.16	O
WCAF1206F0700A	7.00				0.010	10.65	P
WCAF1206F0800A	8.00				0.087	14.17	R
WCAF1206F1000A	10.00				0.064	12.00	Q
WCAF1206F1200A	12.00				0.043	15.72	X
WCAF1206F1500A	15.00				0.038	24.18	Y

Notice: 1. Measured at $\leq 10\%$ rated current and 25°C ambient.
2. Melting I^2t at 0.001 second pre-arcing time.

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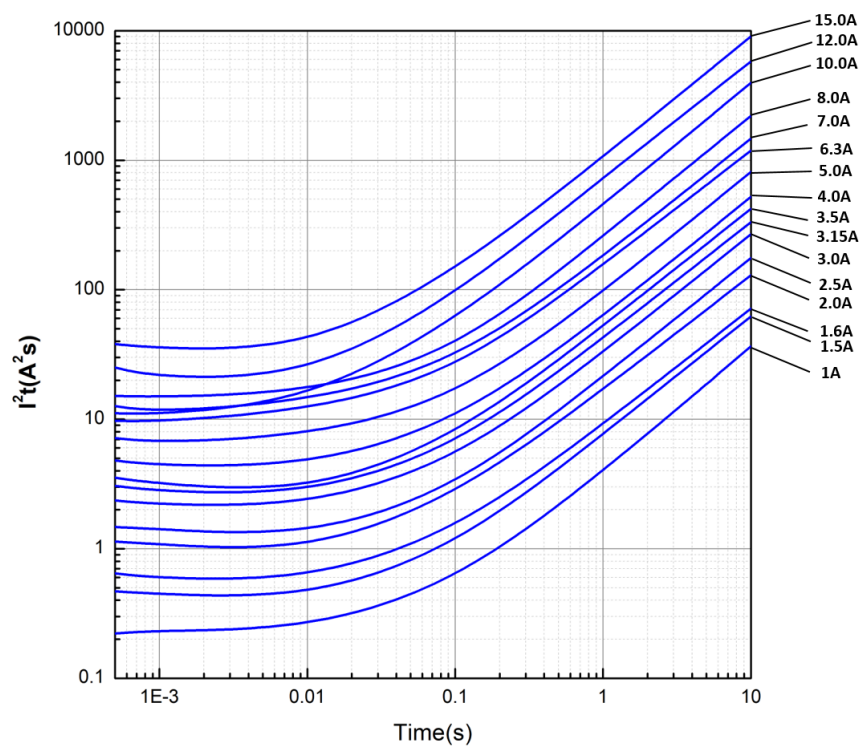
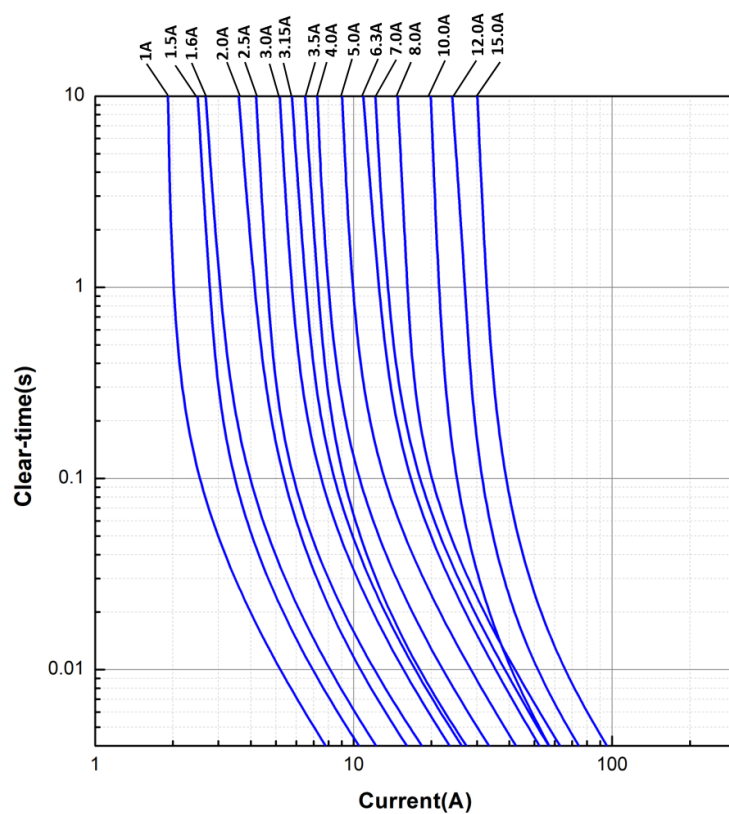
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■ Average Clear-Time Curves And I^2t vs. t Curves



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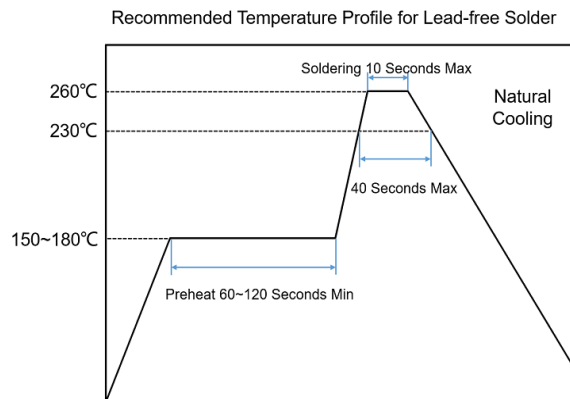
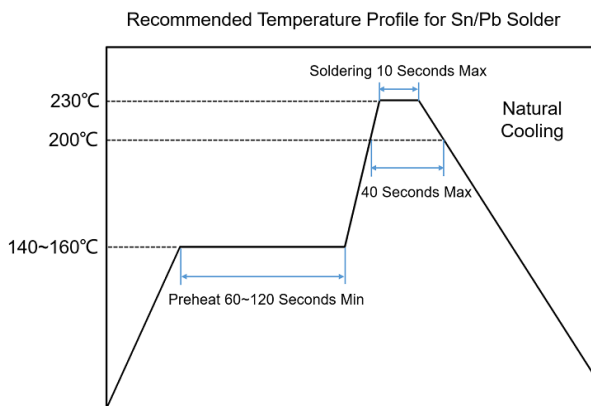
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■ Solder Reflow Recommendations



Recommended conditions for hand soldering:

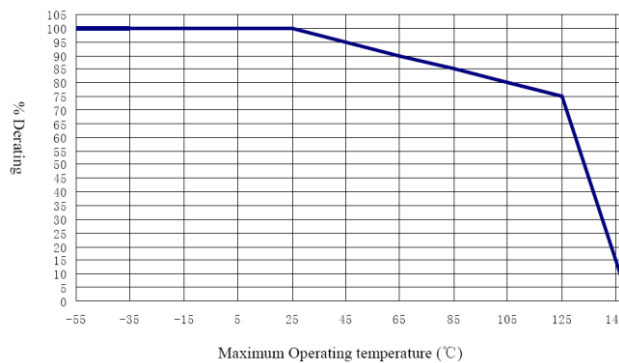
1. Preheating: 150°C, 60s (min) Appropriate temperature (max) of soldering iron tip/soldering time (max): 280°C/10s or 350°C/3s Maximum temperature of soldering iron tip/soldering time: 350°C/9s or 400°C/8s.
2. Using hot air rework station with tip that can melt the solder on both terminations of the same time is strongly recommended, don't directly contact the chip termination with the tip of soldering iron.

■ Electrical Specifications

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 "de-rated".

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.



■ Packaging and Storage

WAYON's chip fuse are provided on tape-and-reel for use in pick-and-place machines or in bulk for special applications. Both tape-and-reel and bulk products are sealed in plastic bags with desiccant.

Chip Size Parts on 7 inch (178 mm) Reel: 3500pcs.

The maximum ambient temperature shall not exceed 40°C. Storage temperatures higher than 40°C could result in the deformation of packaging materials. The maximum relative humidity recommended for storage is 70%. High humidity with high temperature can accelerate the oxidation of the solder plating on the termination and reduce the solderability of the components. Sealed plastic bags with desiccant shall be used to reduce the oxidation of the termination and shall only be opened prior to use. The products shall not be stored in areas where harmful gases containing sulfur or chlorine are present.