

FLC/Low-ratio Fusing

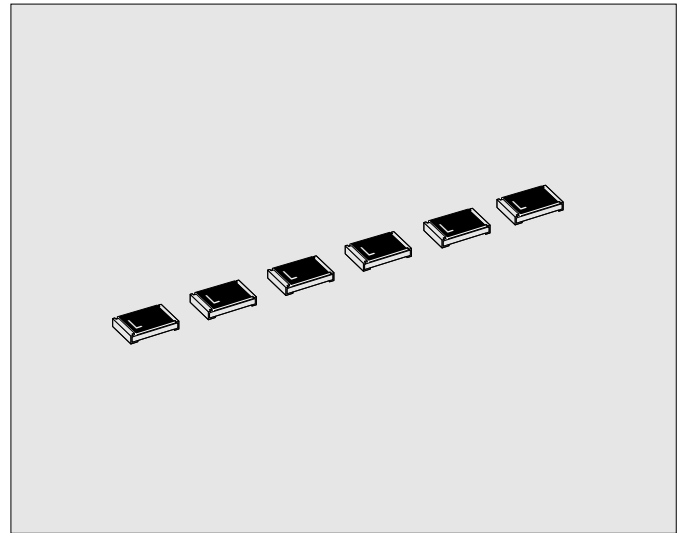
●Features

1. Low-ratio fusing.
 - Rated Current ×140% fusing (120s Typical.)
2. Certified UL, and c-UL.
 - File No. : E176847

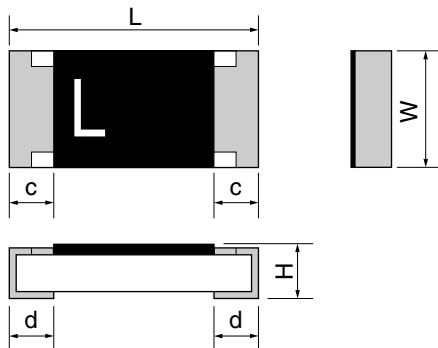


3. Major application

- PC related equipment and peripherals (PC, Hard Drive, Printer etc.).
- Small portable devices (Mobile phone, PDA Battery Charger etc.).
- Digital Camera (Digital still camera).
- Game equipment.
- LCD monitors, LCD modules.
- Battery pack.



●Dimension



Current value is marked on the cover coating.
Please refer to Ratings table on next page.

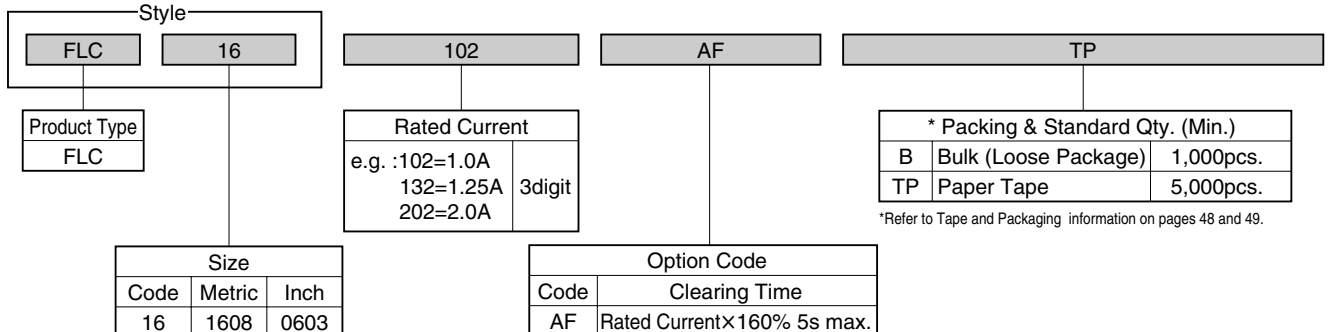
Unit : mm

Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.
FLC16	1608	0603	1.6±0.1	0.8 ^{+0.15} _{-0.05}	0.45±0.10	0.3±0.15	0.3±0.1	2mg

*Values for reference

●Part Number Description

Example



CHIP FUSES; RECTANGULAR TYPE

FLC

●Ratings/Option Code : AF (Fast-Acting type)

Size		Style	Rated Current		Internal Resistance m ohm max.	Mark	Interrupting Rating	Electrical Characteristics		Category Temperature Range °C
Metric	Inch		Code	A				Rated Current	Opening time	
1608	0603	FLC16	102	1.0	120	L	32Vd.c. 35A	×100%	4h Min.	-55~+125
			132	1.25	100	M				
			162	1.6	75	N				
			202	2.0	55	S				

●Performance Characteristics

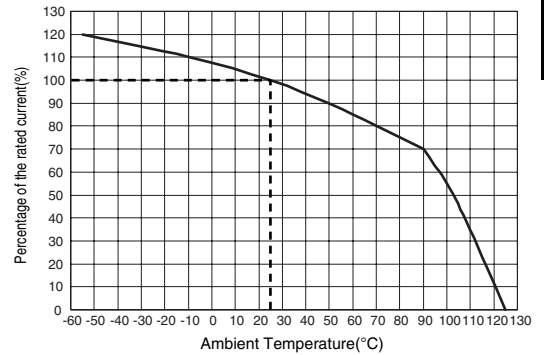
Description	Requirements	Test Methods
Temperature rise on the surface	75°C max.	Ambient temperature : 10°C~30°C Carrying Current : Rated current
Bend strength of the face plating	No visible damage	IEC 60127-4 Clause 8.3 1mm/s, amount of bend : 3 mm
Solderability	At least 95% of the terminal surface must be covered by new solder	IEC 60127-4 Clause 8.5 Be immersed into solder at 235°C for 2s.
Resistance to soldering heat	No visible damage. Meet electrical requirement	IEC 60127-4 Clause 8.7 Be immersed into solder at 260°C for 10s.

Note. Please contact KAMAYA for special applications.

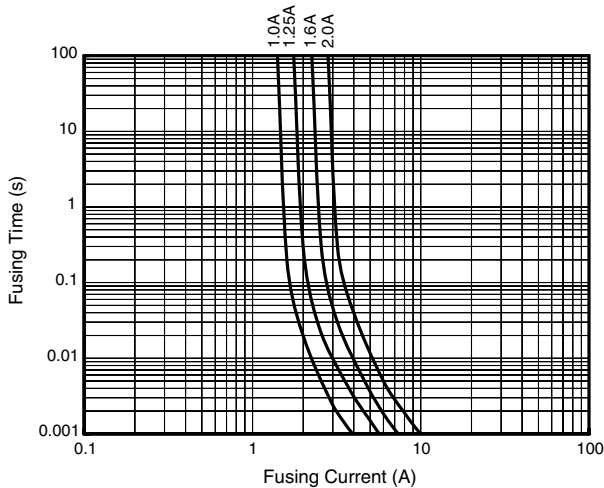
●Recommended Derating for Rated Current

- Nominal Derating
Nominal Derating ≤ 70% of Rated Current
- Temperature Derating
Please refer to the following graph regarding the current derating value for ambient temperature.

Ex.) If FLC16 102AB (Rated Current 1.0A) is used under ambient temperature 70°C,
Kamaya recommends, less than the current value derated as below,
Rated Current : 1.0A × (Nominal Derating : 70% × Temperature Derating : 80%) = 0.56A



●Time / Current Characteristics



●Help Support of Fuse Selection

Please contact kamaya sales Dept, if you need to confirm In-rush Current endurance, Anti-pulse performance etc. We can provide Application Guide for FLC16 selection.

Messrs*** Kamaya Electric Co., Ltd. Hokkaido Research Center No.HR27GF05*****

Verification of Chip Fuse Application

Item for examination	Operating condition
Series: FLC	Application: 15 V d.c.
Size: 1608 (mm)	Rated Current: 2.0 A
Option Code: AF	Nominal: 0.7 A Max.
	Ambient: 70 deg.C Max.
	Altitude: 4,000 ft.

Item for recommend

PN	Size	Am.	Fusing	Interrupting	Note
FLC16132AB	1608	1.25A	160% 5s	32Vd.c. 35A	Standing Pulse 100k times

Confirmation for Interrupting

Condition	Spec.	Judgment
Voltage	15V d.c. 32V d.c.	OK
Current	2.0A ~ 1.5A	OK

Confirmation for Derating

Nominal Derating	70%
Temperature Derating	80%

Basis of selection

#1	1.25A Max.
#2	2.5A Max.

Confirmations for Rush

Series	Size	Current	Fusing	Note
FLC	16	1.25 A	160% 5s	Standing Pulse 100k times

Recommended Item: FLC16 132AB