 XIAMEN NINGLY ELECTRONICS CO.,LTD.	PRODUCT SPECIFICATION	ISSUED DATE: REV. NO.: DOC. NO.: PAGE:	2003/8/5 A02 NLD-PSI-018 Page 1 of 3
	50F SERIES		

PREPARED BY		CHECKED BY		APPROVED BY	
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1. SCOPE

This specification defines the technical requirement of miniature fuse type 50F SERIES which are approved by CCC, SEMKO, VDE, BSI, IMQ, UR, CSA.,

2. APPLICABLE STANDARD & APPROVED DETAILS

2.1 APPLICABLE STANDARD

Applicable standard for 50F SERIES: IEC127

2.2 APPROVED DETAILS:

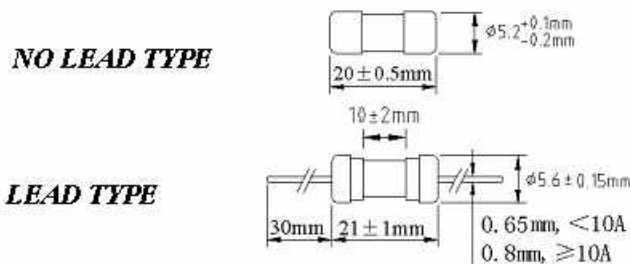
RATED VOLTAGE	CCC		SEMKO		VDE		BSI	
	APPROVE RANGE	CERT NO	APPROVED RANGE	CERT. NO	APPROVED RANGE	CERT. NO	APPROVED RANGE	CERT.NO
250V	200mA-6.3A	20020102070 14541	200mA-6.3A	9649155/0134	200mA-6.3A	139232	200mA-6.3A	KM52652
RATED VOLTAGE	IMQ		UR		CSA			
	APPROVED RANGE	CERT NO	APPROVED RANGE	CERT NO	APPROVED RANGE	CERT. NO		
250V	200mA-6.3A	E1474	200mA-6.3A	E156471	200mA-6.3A	LR101178-8		

3. MATERIAL

PART	MATERIAL	REMARK
Cap	Brass	Nickel Plated
Tube	Clear Glass tube	
Cap with Lead	Brass	Nickel Plated
Lead	Tin.-Plated Copper	
Element	Wire(A, B, C,)	

4. DIMENSION & CONSTRUCTION

4.1 DEMENSION



4.2 GLASS TUBE

Tube shall be transparent as to be easily distinguish fusing element with naked eyes and the tube shall have no defects such as crack, injury and contamination.


4.3 CAP

Cap should be firmly attached so that it is not possible to remove them without damaging the fuse itself. The samples are immersed in water for 24h at a temperature between 15°C and 35°C. After removal from the water, an axial pull steadily increasing to 4N is applied to each cap for 1 min.

4.4 SOLDERING JOINT

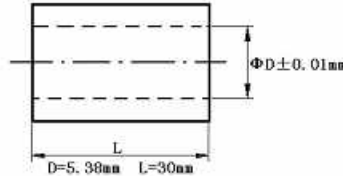
Soldering joint in end cap shall not melt during normal operation and shall not have solder clips on tube, element in view and outer surface of caps.

5. ELECTRICAL PERFORMANCE

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5.1 ALIGNMENT

The entire length of the fuse shall pass through the gauge by the fuses own weight. The construction of gauge is as follows:



5.2 VOLTAGE DROP

The voltage drop across the fuse-link at their rated current shall not exceed the maximum values is in follows:

Rated current	Rated Voltage V	Maximum Voltage drop mV	Maximum sustained Power dissipation W
200mA	250	1,700	1.6
250mA		1,400	
315mA		1,300	
400mA		1,200	
500mA		1,000	
630mA		650	
800mA		240	
1 A		200	
1.25A		200	
1.6 A		190	
2 A		170	
2.5 A		170	
3.15A	250	150	2.5
4 A		130	
5 A		130	
6.3 A		130	

5.3 PRE-ARCING TIME/CURRENT CHARACTERISTIC

Rated Current	2.1In	2.75In		4In		10In
	Max	Min	Max	Min	Max	Max
>32mA-100mA	30min	10ms	500ms	3ms	100ms	20ms
>100mA-6.3A	30min	50ms	2s	10ms	300ms	20ms

5.4 BREAKING CAPACITY

Rated breaking capacity is 35A or 10 In whichever is greater, tested with a.c.
 A test circuit for the rated Low-breaking capacity test in Figure 1.

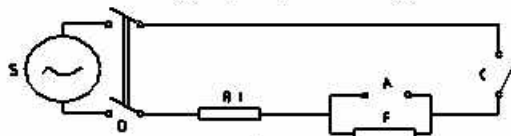



Figure 1

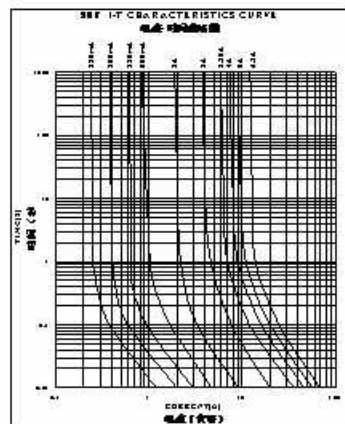
- A: Removable link used for calibration
 - C: Contractor that makes the circuit
 - D: Switch to disconnect the source of supply
 - F: Fuse under test
 - S: Source of supply, impedance less than 10% of the total impedance of the circuit
 - R1: Series resistor, adjusted to obtain correct prospective current
- The power factor shall be between 0.7 and 0.8.

5.5 ENDURANCE TESTS

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- A. A current $1.2I_n$ is passed through the fuse-link for a period of 1h. The current is then switched off for a period of 15 min. The cycle is repeated 100 times.
- B. A current $1.5I_n$ is then passed through the fuse-link for 1h.
- C. Finally, the Voltage drop across the fuse-link is measured. The Voltage drop across the fuse-link after the test shall not have increased by more than 10% of the Value measured before the test.
- D. After the test, the marking shall still be legible and soldered joints on end caps, for example, shall not show and appreciable deterioration.








5.6 TIME-CURRENT CHARACTERISTIC CURVE



6. MARKING

6.1 The marking on fuse shall be indelibly marked on end cap and easily visible.

6.2 The symbol for every fuse shall be as prescribed below:

- 1) Approved safety logo:      
- 2) Type: 50F
- 3) Rated current or voltage:
- 4) Trade mark: 
- 5) Characteristic symbol: F
- 6) Breaking capacity symbol: L

6.3 The smallest package in which the fuses are supplied shall containing the Type, Rated current, Rated voltage, Interrupting rating, Approval safety logo, Lot. No., Trade mark.

7. PACKAGING REQUIREMENT

7.1 Domestic sales:

7.1.1 NO LEAD TYPE: 200EA/small bag → 25 small bags/big bag → 2 big bags/small external carton;

7.1.2 LEAD TYPE: 100EA/small bag → 25 small bags/big bag → 4 big bags/big external carton.

small external carton dimensions: long×width×high=32×24×16.5cm;

Big external carton dimensions: long×width×high=35.5×29.5×26cm;

7.2 Oversea sales:

7.2.1 NO LEAD TYPE: 200EA/small bag → 5 small bags/box → 10 boxes/middling external carton;

7.2.2 LEAD TYPE: 100EA/small bag → 5 small bags/box → 10 boxes/middling external carton;

Middling external carton dimensions: long×width×high=35.5×29.5×26cm

7.3 Packaging shall be so carried out that the products will not absorb moisture or be damaged during transportation or storage.