



## Fuse Qualification Summary Report - 0ALEX Fuse series

**Fuse Type and Rating : 0ALEX 10A/20A/30A/40A/50A**

**Production Lot Number : ENG'samples**

**Project Number : FPQ-137**

**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

Reference	Test Description	Testing Condition	Acceptance Criteria	Result
UL248-1	Cold resistance	Ambient Temperature 23+-5 °C current ≤10% In, Measure Point: Fuse Cap	Record data	12/12 pass For each P/N
ISO8820-8 JASO D622	Temperature rise test	Ambient Temperature 23+-5 °C; Current: 70% of rated current	Temperature Rise <50K	2/2 pass
JASO D622 6.3.4.1	Temperature and humidity cycle	Make 10 temperature / humidity change cycles in the constant temperature and humidity tank according to the standard	No appearance damage, Rc change <10%	2/2 pass
JASO D622 6.3.6	Thermal shock resistance test	48cycles, -30 ° C-100 ° C;	No appearance damage, Rc change <10%	2/2 pass
User-defined	High temperature storage test	Storage under 125degrees for 100hours;	No appearance damage, Rc change <10%	2/2 pass
JASO D622 6.3.3	Vibration Durability	Ambient Temperature 23+-5 °C; The vibration frequency should be 10-55Hz, the Max amplitude 1.5mm, 3direction, 2hours per direction	No appearance damage, Rc change <10%	2/2 pass
JASO D622 6.3.2	Transient current intermittent cycle durability test	Ambient Temperature 23+-5 °C; One cycle contain a current of 2In/0.25sec, and follow by current of 0.5In/15sec; Total 50000cycle	No appearance damage, Rc change <10%	2/2 pass
GB/T31465.1-5.4	Wipe off the Lubricant & Fuel oil	Wipe the marking with fuel oil and lubricant for 30sec each	After test, marking is clear and identifiable	12/12 pass
JASO D622 ISO8820-8	Strength of fuse links	Tighten and loosed the fuses (M5) with 3.5-4Nm	Tighten and loosed 3 times, terminals maintain integrated after test.	12/12 pass

Reported By: Hongguo Hu

Approved by: Simon Chiu

Test Complete Date: Apr 29 , 2021

## Cold resistance

**Fuse Type and Rating : 0ALEX 10A/20A/30A/40A/50A**

**Production Lot Number : ENG'samples**

**Project Number : FPQ-137**

**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : UL248-1**

Ambient Temperature 23+5°C current ≤10% In, Measure Point: Fuse Cap

Type:		0ALEB 10A					
Start Date:		4/5/2021		End Date:		4/5/2021	
Room Temp.:		24.7	°C	Room Humi.:		63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check		
Unit:		mΩ		Unit:		mΩ	
Upper Limit:		No Visual Damage		Upper Limit:		No Visual Damage	
Lower Limit:				Lower Limit:			
1	13.51	pass	7	13.24	pass		
2	13.49	pass	8	13.26	pass		
3	13.38	pass	9	13.15	pass		
4	13.18	pass	10	13.44	pass		
5	13.23	pass	11	13.47	pass		
6	13.45	pass	12	13.32	pass		

Type:		0ALEB 20A					
Start Date:		4/5/2021		End Date:		4/5/2021	
Room Temp.:		24.7	°C	Room Humi.:		63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check		
Unit:		mΩ		Unit:		mΩ	
Upper Limit:		No Visual Damage		Upper Limit:		No Visual Damage	
Lower Limit:				Lower Limit:			
1	5.00	pass	7	4.98	pass		
2	5.15	pass	8	5.02	pass		
3	5.05	pass	9	5.05	pass		
4	5.00	pass	10	4.99	pass		
5	5.03	pass	11	5.07	pass		
6	4.99	pass	12	5.03	pass		

Type:		0ALEB 30A					
Start Date:		4/5/2021		End Date:		4/5/2021	
Room Temp.:		24.7	°C	Room Humi.:		63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check		
Unit:		mΩ		Unit:		mΩ	
Upper Limit:		No Visual Damage		Upper Limit:		No Visual Damage	
Lower Limit:				Lower Limit:			
1	3.04	pass	7	3.03	pass		
2	3.06	pass	8	3.10	pass		
3	3.02	pass	9	3.01	pass		
4	2.99	pass	10	3.02	pass		
5	3.11	pass	11	3.04	pass		
6	3.00	pass	12	3.02	pass		

## Cold resistance

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**Project Number : FPQ-137**

**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : UL248-1**

Ambient Temperature 23+-5°C current ≤10% In, Measure Point: Fuse Cap

Type:	0ALEB 40A					
Start Date:	4/5/2021			End Date:	4/5/2021	
Room Temp.:	24.7	°C		Room Humi.:	63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:		No Visual Damage	Upper Limit:		No Visual Damage	
Lower Limit:			Lower Limit:			
1	2.185	pass	7	2.177	pass	
2	2.161	pass	8	2.171	pass	
3	2.164	pass	9	2.174	pass	
4	2.157	pass	10	2.187	pass	
5	2.182	pass	11	2.167	pass	
6	2.183	pass	12	2.176	pass	

Type:	0ALEB 50A					
Start Date:	4/5/2021			End Date:	4/5/2021	
Room Temp.:	24.7	°C		Room Humi.:	63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:		No Visual Damage	Upper Limit:		No Visual Damage	
Lower Limit:			Lower Limit:			
1	1.630	pass	7	1.628	pass	
2	1.641	pass	8	1.643	pass	
3	1.635	pass	9	1.624	pass	
4	1.612	pass	10	1.629	pass	
5	1.615	pass	11	1.643	pass	
6	1.642	pass	12	1.633	pass	

## Temperature rise test

**Fuse Type and Rating : 0ALEX 10A/20A/30A/40A/50A**

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**Project Number : FPQ-137**

**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : ISO8820-8JASO D622**

Ambient Temperature 23+5°C; Current: 70% of rated current

Type:	0ALEB 10A					
Start Date:	4/5/2021			End Date:	4/7/2021	
Room Temp.:	24.5	°C		Room Humi.:	51	%
No.\Name	Temperature rise @0.7In	Visual Check	No.\Name	Temperature rise @0.7In	Visual Check	
Unit:	K		Unit:	K		
Upper Limit:	50	No Visual Damage	Upper Limit:	50	No Visual Damage	
Lower Limit:			Lower Limit:			
1	18.5	pass	2	18.3	pass	

Type:	0ALEB 20A					
Start Date:	4/5/2021			End Date:	4/7/2021	
Room Temp.:	24.5	°C		Room Humi.:	51	%
No.\Name	Temperature rise @0.7In	Visual Check	No.\Name	Temperature rise @0.7In	Visual Check	
Unit:	K		Unit:	K		
Upper Limit:	50	No Visual Damage	Upper Limit:	50	No Visual Damage	
Lower Limit:			Lower Limit:			
1	24.8	pass	2	25.3	pass	

Type:	0ALEB 30A					
Start Date:	4/5/2021			End Date:	4/7/2021	
Room Temp.:	24.5	°C		Room Humi.:	51	%
No.\Name	Temperature rise @0.7In	Visual Check	No.\Name	Temperature rise @0.7In	Visual Check	
Unit:	K		Unit:	K		
Upper Limit:	50	No Visual Damage	Upper Limit:	50	No Visual Damage	
Lower Limit:			Lower Limit:			
1	34.6	pass	2	35.0	pass	

Type:	0ALEB 40A					
Start Date:	4/5/2021			End Date:	4/7/2021	
Room Temp.:	24.5	°C		Room Humi.:	51	%
No.\Name	Temperature rise @0.7In	Visual Check	No.\Name	Temperature rise @0.7In	Visual Check	
Unit:	K		Unit:	K		
Upper Limit:	50	No Visual Damage	Upper Limit:	50	No Visual Damage	
Lower Limit:			Lower Limit:			
1	42.5	pass	2	41.8	pass	

Type:	0ALEB 50A					
Start Date:	4/5/2021			End Date:	4/7/2021	
Room Temp.:	24.5	°C		Room Humi.:	51	%
No.\Name	Temperature rise @0.7In	Visual Check	No.\Name	Temperature rise @0.7In	Visual Check	
Unit:	K		Unit:	K		
Upper Limit:	50	No Visual Damage	Upper Limit:	50	No Visual Damage	
Lower Limit:			Lower Limit:			
1	45.4	pass	2	46.2	pass	

## Temperature and humidity cycle

**Fuse Type and Rating : 0ALEX 10A/20A/30A/40A/50A**

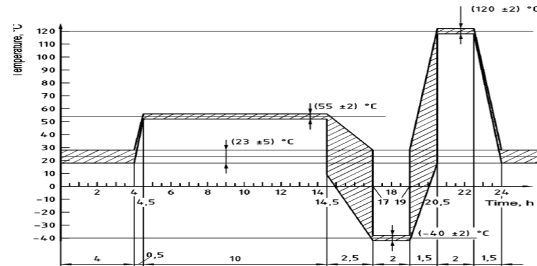
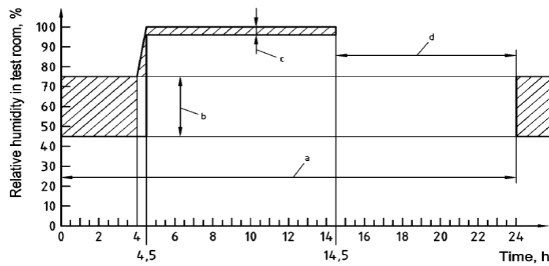
**Production Lot Number : ENG'samples**

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**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : JASO D622 6.3.4.1**

Make 10 temperature / humidity change cycles in the constant temperature and humidity tank according to the standard 24hours/cycles



Type:	0ALEB 10A			
Start Date:	4/5/2021		End Date:	4/19/2021
Room Temp.:	24.8	°C	Room Humi.:	58 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance
Unit:	mΩ		Unit:	mΩ
Upper Limit:	14.86	No Visual Damage	Upper Limit:	14.86
Lower Limit:	11.84		Lower Limit:	11.84
3	13.57	pass	4	13.39
Type:	0ALEB 20A			
Start Date:	4/5/2021		End Date:	4/19/2021
Room Temp.:	24.8	°C	Room Humi.:	58 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance
Unit:	mΩ		Unit:	mΩ
Upper Limit:	5.67	No Visual Damage	Upper Limit:	5.67
Lower Limit:	4.48		Lower Limit:	4.48
3	5.10	pass	4	5.05
Type:	0ALEB 30A			
Start Date:	4/5/2021		End Date:	4/19/2021
Room Temp.:	24.8	°C	Room Humi.:	58 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance
Unit:	mΩ		Unit:	mΩ
Upper Limit:	3.42	No Visual Damage	Upper Limit:	3.42
Lower Limit:	2.69		Lower Limit:	2.69
3	3.06	pass	4	3.01
Type:	0ALEB 40A			
Start Date:	4/5/2021		End Date:	4/19/2021
Room Temp.:	24.8	°C	Room Humi.:	58 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance
Unit:	mΩ		Unit:	mΩ
Upper Limit:	2.406	No Visual Damage	Upper Limit:	2.406
Lower Limit:	1.941		Lower Limit:	1.941
3	2.186	pass	4	2.178
Type:	0ALEB 50A			
Start Date:	4/5/2021		End Date:	4/19/2021
Room Temp.:	24.8	°C	Room Humi.:	58 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance
Unit:	mΩ		Unit:	mΩ
Upper Limit:	1.807	No Visual Damage	Upper Limit:	1.807
Lower Limit:	1.451		Lower Limit:	1.451
3	1.657	pass	4	1.637



## Thermal shock resistance test

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**Production Lot Number : ENG'samples**

**Project Number : FPQ-137**

**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : JASO D622 6.3.6**

48cycles, -30° C-100° C;

The condition of a single cycle:

-Leave the test pieces inside the room at  $(-30 \pm 2)^\circ\text{C}$  for 30 minutes.

-Move then to another room at  $(100 \pm 2)^\circ\text{C}$  within 15 seconds and leave them for 30 minutes.

-Move them back to the original room at  $(-30 \pm 2)^\circ\text{C}$  within 15 seconds.

Type:	0ALEB 10A					
Start Date:	4/9/2021			End Date:	4/14/2021	
Room Temp.:	25.1	°C		Room Humi.:	59	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	14.86	No Visual Damage	Upper Limit:	14.86	No Visual Damage	
Lower Limit:	11.84		Lower Limit:	11.84		
5	13.29	pass	6	13.58	pass	
Type:	0ALEB 20A					
Start Date:	4/9/2021			End Date:	4/14/2021	
Room Temp.:	25.1	°C		Room Humi.:	59	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	5.67	No Visual Damage	Upper Limit:	5.67	No Visual Damage	
Lower Limit:	4.48		Lower Limit:	4.48		
5	5.06	pass	6	5.04	pass	
Type:	0ALEB 30A					
Start Date:	4/9/2021			End Date:	4/14/2021	
Room Temp.:	25.1	°C		Room Humi.:	59	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	3.42	No Visual Damage	Upper Limit:	3.42	No Visual Damage	
Lower Limit:	2.69		Lower Limit:	2.69		
5	3.12	pass	6	3.03	pass	
Type:	0ALEB 40A					
Start Date:	4/9/2021			End Date:	4/14/2021	
Room Temp.:	25.1	°C		Room Humi.:	59	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	2.406	No Visual Damage	Upper Limit:	2.406	No Visual Damage	
Lower Limit:	1.941		Lower Limit:	1.941		
5	2.196	pass	6	2.205	pass	
Type:	0ALEB 50A					
Start Date:	4/9/2021			End Date:	4/14/2021	
Room Temp.:	25.1	°C		Room Humi.:	59	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	1.807	No Visual Damage	Upper Limit:	1.807	No Visual Damage	
Lower Limit:	1.451		Lower Limit:	1.451		
5	1.622	pass	6	1.657	pass	

## High temperature storage test

**Fuse Type and Rating : 0ALEX 10A/20A/30A/40A/50A**

**Production Lot Number : ENG'samples**

**Project Number : FPQ-137**

**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : User-defined**

Storage under 125degrees for 100hours;

Type:	0ALEB 10A				
Start Date:	4/12/2021			End Date:	4/19/2021
Room Temp.:	24.6	°C		Room Humi.:	66 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check
Unit:	mΩ		Unit:	mΩ	
Upper Limit:	14.86	No Visual Damage	Upper Limit:	14.86	No Visual Damage
Lower Limit:	11.84		Lower Limit:	11.84	
7	13.36	pass	8	13.51	pass

Type:	0ALEB 20A				
Start Date:	4/12/2021			End Date:	4/19/2021
Room Temp.:	24.6	°C		Room Humi.:	66 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check
Unit:	mΩ		Unit:	mΩ	
Upper Limit:	5.67	No Visual Damage	Upper Limit:	5.67	No Visual Damage
Lower Limit:	4.48		Lower Limit:	4.48	
7	5.05	pass	8	5.09	pass

Type:	0ALEB 30A				
Start Date:	4/12/2021			End Date:	4/19/2021
Room Temp.:	24.6	°C		Room Humi.:	66 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check
Unit:	mΩ		Unit:	mΩ	
Upper Limit:	3.42	No Visual Damage	Upper Limit:	3.42	No Visual Damage
Lower Limit:	2.69		Lower Limit:	2.69	
7	3.06	pass	8	3.16	pass

Type:	0ALEB 40A				
Start Date:	4/12/2021			End Date:	4/19/2021
Room Temp.:	24.6	°C		Room Humi.:	66 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check
Unit:	mΩ		Unit:	mΩ	
Upper Limit:	2.406	No Visual Damage	Upper Limit:	2.406	No Visual Damage
Lower Limit:	1.941		Lower Limit:	1.941	
7	2.208	pass	8	2.214	pass

Type:	0ALEB 50A				
Start Date:	4/12/2021			End Date:	4/19/2021
Room Temp.:	24.6	°C		Room Humi.:	66 %
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check
Unit:	mΩ		Unit:	mΩ	
Upper Limit:	1.807	No Visual Damage	Upper Limit:	1.807	No Visual Damage
Lower Limit:	1.451		Lower Limit:	1.451	
7	1.643	pass	8	1.673	pass



## Vibration Durability

**Fuse Type and Rating : 0ALEX 10A/20A/30A/40A/50A**

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**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : JASO D622 6.3.3**

Ambient Temperature 23+-5°C; The vibration frequency should be 10-55Hz, the Max amplitude 1.5mm, 3direction, 2hours per direction

Type:	0ALEB 10A					
Start Date:	4/21/2021			End Date:	4/26/2021	
Room Temp.:	24.8	°C		Room Humi.:	57	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	14.86	No Visual Damage	Upper Limit:	14.86	No Visual Damage	
Lower Limit:	11.84		Lower Limit:	11.84		
9	13.27	pass	10	13.61	pass	

Type:	0ALEB 20A					
Start Date:	4/21/2021			End Date:	4/26/2021	
Room Temp.:	24.8	°C		Room Humi.:	57	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	5.67	No Visual Damage	Upper Limit:	5.67	No Visual Damage	
Lower Limit:	4.48		Lower Limit:	4.48		
9	5.11	pass	10	5.06	pass	

Type:	0ALEB 30A					
Start Date:	4/21/2021			End Date:	4/26/2021	
Room Temp.:	24.8	°C		Room Humi.:	57	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	3.42	No Visual Damage	Upper Limit:	3.42	No Visual Damage	
Lower Limit:	2.69		Lower Limit:	2.69		
9	3.04	pass	10	3.06	pass	

Type:	0ALEB 40A					
Start Date:	4/21/2021			End Date:	4/26/2021	
Room Temp.:	24.8	°C		Room Humi.:	57	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	2.406	No Visual Damage	Upper Limit:	2.406	No Visual Damage	
Lower Limit:	1.941		Lower Limit:	1.941		
9	2.201	pass	10	2.217	pass	

Type:	0ALEB 50A					
Start Date:	4/21/2021			End Date:	4/26/2021	
Room Temp.:	24.8	°C		Room Humi.:	57	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	1.807	No Visual Damage	Upper Limit:	1.807	No Visual Damage	
Lower Limit:	1.451		Lower Limit:	1.451		
9	1.639	pass	10	1.641	pass	

## Transient current intermittent cycle durability test

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**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : JASO D622 6.3.2**

Ambient Temperature 23+5°C; One cycle contain a current of 2In/0.25sec, and follow by current of 0.5In/15sec;  
Total 50000cycle

Type:	0ALEB 10A					
Start Date:	4/10/2021			End Date:	4/22/2021	
Room Temp.:	25.3	°C		Room Humi.:	63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	14.86	No Visual Damage	Upper Limit:	14.86	No Visual Damage	
Lower Limit:	11.84		Lower Limit:	11.84		
11	13.66	pass	12	13.51	pass	

Type:	0ALEB 20A					
Start Date:	4/10/2021			End Date:	4/22/2021	
Room Temp.:	25.3	°C		Room Humi.:	63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	5.67	No Visual Damage	Upper Limit:	5.67	No Visual Damage	
Lower Limit:	4.48		Lower Limit:	4.48		
11	5.14	pass	12	5.08	pass	

Type:	0ALEB 30A					
Start Date:	4/10/2021			End Date:	4/22/2021	
Room Temp.:	25.3	°C		Room Humi.:	63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	3.42	No Visual Damage	Upper Limit:	3.42	No Visual Damage	
Lower Limit:	2.69		Lower Limit:	2.69		
11	3.05	pass	12	3.06	pass	

Type:	0ALEB 40A					
Start Date:	4/10/2021			End Date:	4/22/2021	
Room Temp.:	25.3	°C		Room Humi.:	63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	2.406	No Visual Damage	Upper Limit:	2.406	No Visual Damage	
Lower Limit:	1.941		Lower Limit:	1.941		
11	2.184	pass	12	2.189	pass	

Type:	0ALEB 50A					
Start Date:	4/10/2021			End Date:	4/22/2021	
Room Temp.:	25.3	°C		Room Humi.:	63	%
No.\Name	Cold Resistance	Visual Check	No.\Name	Cold Resistance	Visual Check	
Unit:	mΩ		Unit:	mΩ		
Upper Limit:	1.807	No Visual Damage	Upper Limit:	1.807	No Visual Damage	
Lower Limit:	1.451		Lower Limit:	1.451		
11	1.651	pass	12	1.644	pass	

## Wipe off the Lubricant & Fuel oil

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**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : GB/T31465.1-5.4**

Wipe the marking with fuel oil and lubricant for 30sec each

Type:	0ALEB 10A					
Start Date:	4/26/2021			End Date:	4/26/2021	
Room Temp.:	25.2	°C		Room Humi.:	62	%
No.\Name	Marking still legible		No.\Name	Marking still legible		
1	pass		7	pass		
2	pass		8	pass		
3	pass		9	pass		
4	pass		10	pass		
5	pass		11	pass		
6	pass		12	pass		

## Strength of fuse links

**Fuse Type and Rating : 0ALEX 10A/20A/30A/40A/50A**

**Production Lot Number : ENG'samples**

**Project Number : FPQ-137**

**Fuse Part Number : 0ALEB9100-XX/0ALEB9200-XX/0ALEB9300-XX/0ALEB9400-XX/0ALEB9500-XX**

**Condition : JASO D622ISO8820-8**

Tighten and loosed the fuses (M5) with 3.5-4Nm

Type:	0ALEB 10A					
Start Date:	4/9/2021			End Date:	4/26/2021	
Room Temp.:	25.7	°C		Room Humi.:	67	%
No.\Name	The frequency of Tighten and loosed	Visual Check	No.\Name	The frequency of Tighten and loosed	Visual Check	
Unit:			Unit:			
Upper Limit:		No Visual Damage	Upper Limit:		No Visual Damage	
Lower Limit:	3		Lower Limit:	3		
1	>3	pass	7	>3	pass	
2	>3	pass	8	>3	pass	
3	>3	pass	9	>3	pass	
4	>3	pass	10	>3	pass	
5	>3	pass	11	>3	pass	
6	>3	pass	12	>3	pass	

Type:	0ALEB 50A					
Start Date:	4/9/2021			End Date:	4/26/2021	
Room Temp.:	25.7	°C		Room Humi.:	67	%
No.\Name	The frequency of Tighten and loosed	Visual Check	No.\Name	The frequency of Tighten and loosed	Visual Check	
Unit:			Unit:			
Upper Limit:		No Visual Damage	Upper Limit:		No Visual Damage	
Lower Limit:	3		Lower Limit:	3		
1	>3	pass	7	>3	pass	
2	>3	pass	8	>3	pass	
3	>3	pass	9	>3	pass	
4	>3	pass	10	>3	pass	
5	>3	pass	11	>3	pass	
6	>3	pass	12	>3	pass	