Inspection Report

Report No:	KHT-20250422-042	**Sales:**	JAX	**Department Of Application**	Sales
Receipt Date:	2025-04-18	**Test Date:**	2025-04-18	**Report Date:**	2025-04-22
Inspector:		**Approved by:**		**Approved by:**	

Sample Information					
Part Number:	AOZ1280CI	**Package Type:**	SOT23	**D/C:**	25+
Package Carrier:	REEL	**Manufacturer:**	AOS	**MSL:**	1
Quantity Received:	2090pcs	**Quantity Inspected:**	5pcs	**PO Number:**	KTD2524219
Incoming information：The incoming goods are a section of tape ,there is no original packaging and original labeling .The packing and tape show no damage, no popping or other abnormal phenomena.					

Test Content			
Report Summary:	**Details:**	**Risk Level:**	
Inspection Items	**Reference Standards**	**Results**	**Notes**
1.External Visual Inspection			
1.1 Product Information	AS6081 IDEA-STD-1010-B	PASS	
1.2 Surface Analysis		PASS	
1.3 Pin Plating Analysis		PASS	
1.4 Aceton Inspection		PASS	
1.5 Device Dimension Measurement	Device Datasheet	PASS	
2.X-RAY Test			
2.1 X-Ray Internal Structure Inspection	GJB548B-2005	PASS	
3.Solderability Test			
3.1 Solderability Test	IPC J-STD-002D/2C	/	
4.De-cap Die Analysis			

4.1De-cap Die Analysis	GJB 4027A-2006	/	
5.SEM & EDS Analysis			
5.1 Microstructure Analysis	JY/T 0584-2020	/	
5.2 Pin Material Analysis	GB/T 17359-2012	/	
6.RoHS Test			
6. 1 RoHS Test	RoHS Order	/	
7.IV Test/Electrical Performance Test			
7.1 IV Test/Electrical Performance Test	Datesheet	/	
8.XRF Analysis			
8.1 Coating Thickness Analysis	Datesheet	/	
9.C-SAM Analysis			
9.1 Ultrasonic Inspection	IPC/JEDEC J-STD-035:1999	/	

Conclusion and Suggestions	
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Conclusion:	Incoming 2090pcs for the same batch， the tape is intact；5pcs were detected by sampling detection method， EVI passed, X-RAY test passed..
Suggestions:	

Notes and Disclaimers:

1. The report is invalid without the signature of the quality inspector and QC supervisor.

2. No part of this publication may be reproduced, altered or distributed publicly in any form or by any means without the prior written permission of Kehuite Technology Development Limited.

3. Any questions about the goods, please contact the corresponding salesman.

Datasheet:

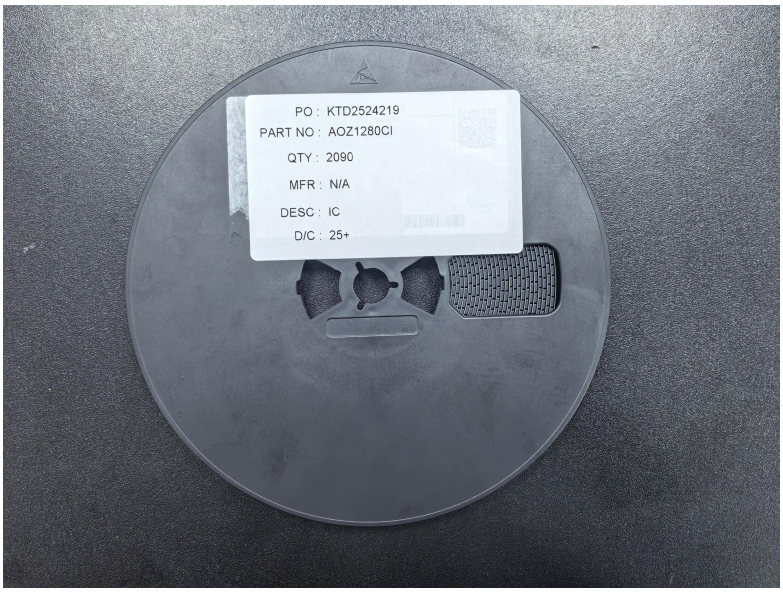
https://www.aosmd.com/res/datasheets/AOZ1280CI.pdf

1.External Visual Inspection

1.1 Product Information

- **Packaging or label inspection of the samples are as follows:**

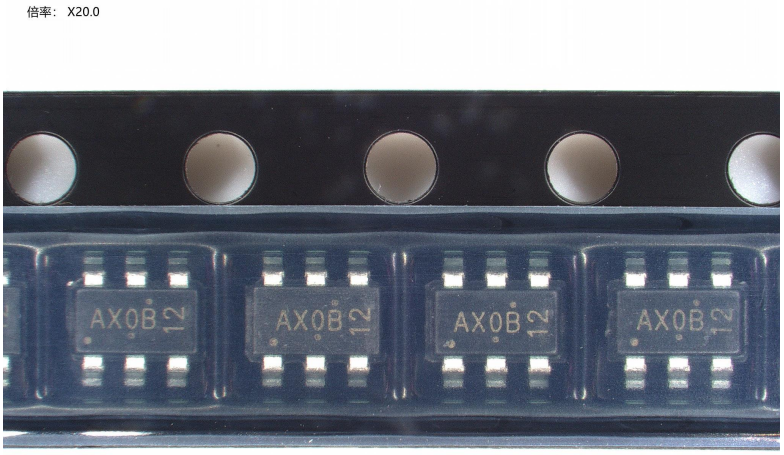
Labels are clear, no alterations, label information checks out; typed versions, typography, etc. conform to original factory characteristics.



Arrival picture Fig1

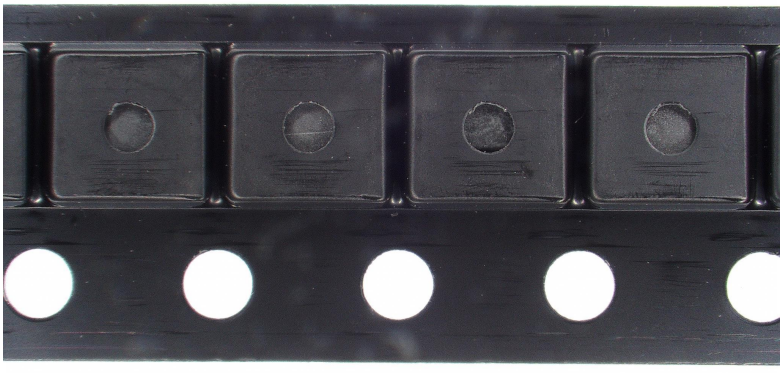
Arrival label Fig2

The braided tape has no tears or burst tapes, meets the specifications of the specification,is a clear film with even indentations, and conforms to the original characteristics.



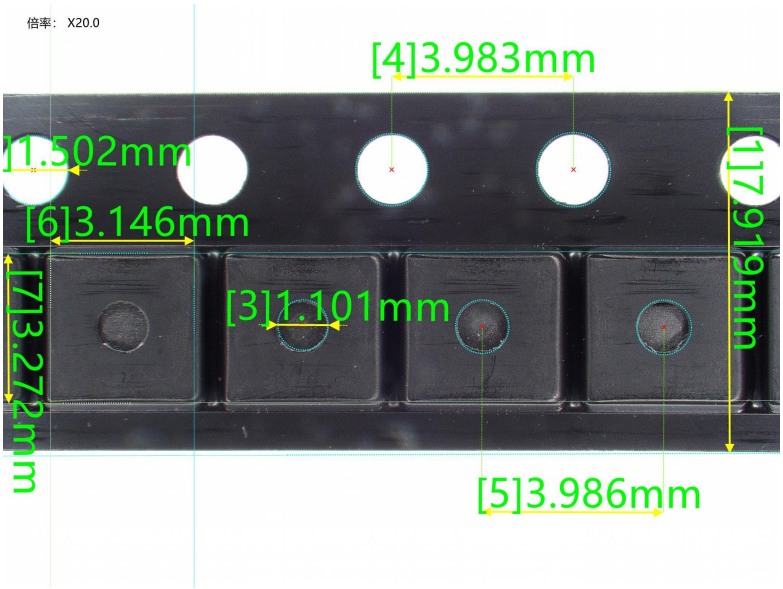
Tape Front

Fig3



Tape Back

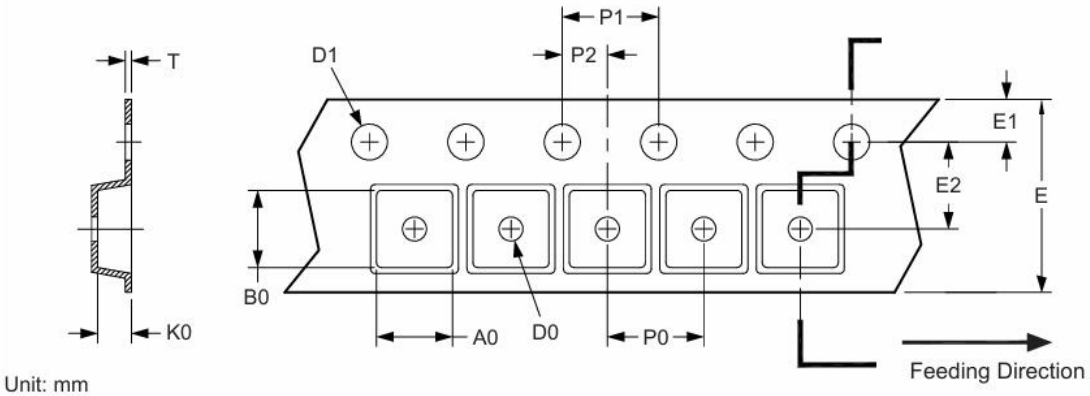
Fig4



Electronic measurements

Fig5

Tape



Unit: mm

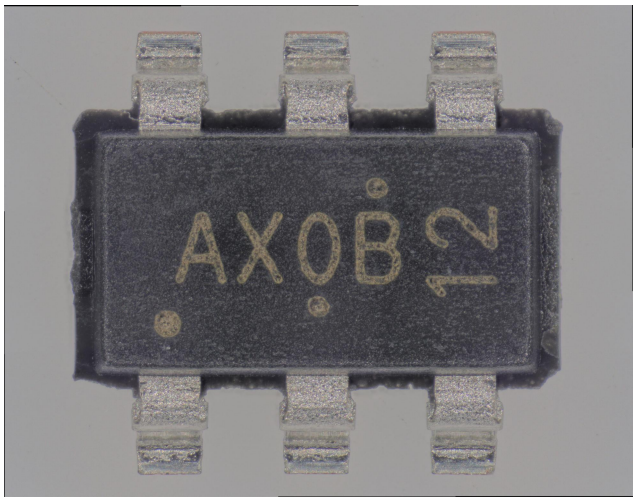
Package	A0	B0	K0	D0	D1	E	E1	E2	P0	P1	P2	T
SOT-23	3.15 ±0.10	3.27 ±0.10	1.34 ±0.10	1.10 ±0.01	1.50 ±0.10	8.00 ±0.20	1.75 ±0.10	3.50 ±0.05	4.00 ±0.10	4.00 ±0.10	2.00 ±0.10	0.25 ±0.05

Fig6

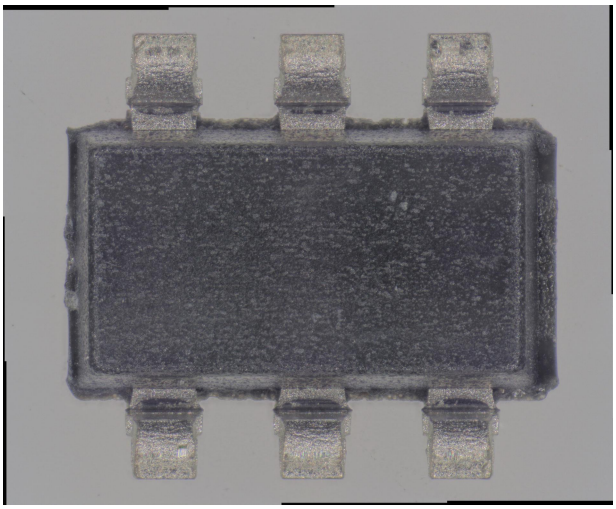
1.2 Surface Analysis

- **The comparison specifications for the sampled samples show the following results:**

  Marking , typing version, typesetting and other comparison is consistent, chip packaging is not abnormal.



Top View Fig7



Bottom View Fig8

The marking on the surface of the sample is clear, the granularity is obvious, the shape of the marking is regular, and there is no trace of secondary polishing;

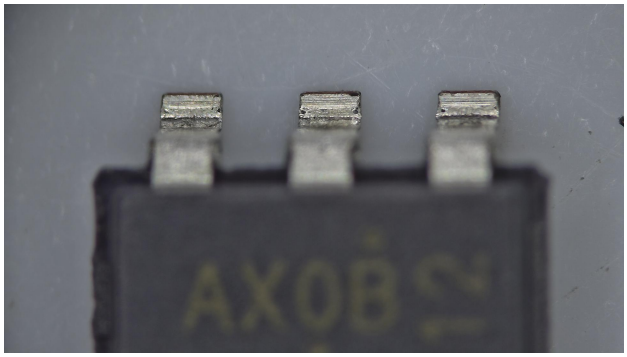
Sample Marking Fig9

Opt-SEM Fig10

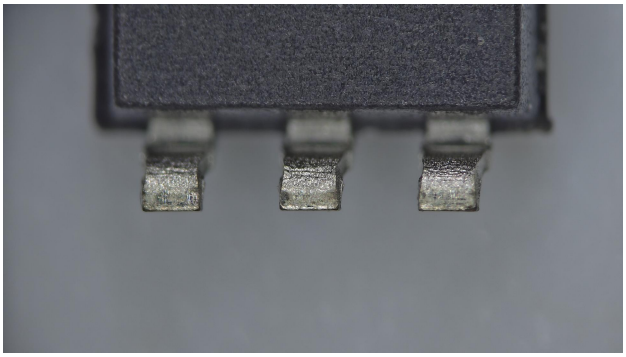
1.3 Pin Plating Analysis

• Analysis of the sampled samples for inspection of the pin coating showed the following results:

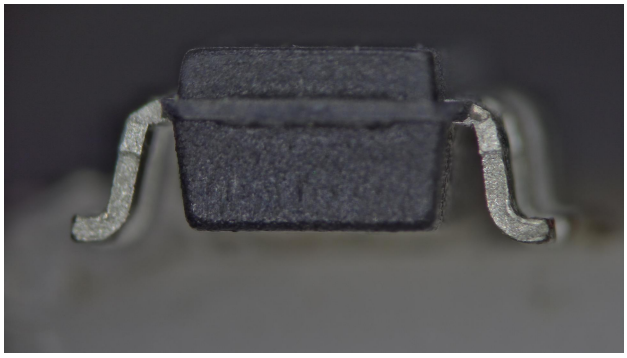
The tin on the pin is uniform without abnormal, the cross-section of the exposed copper substrate is a normal phenomenon, there is no obvious sanding characteristics, the overall condition is good.



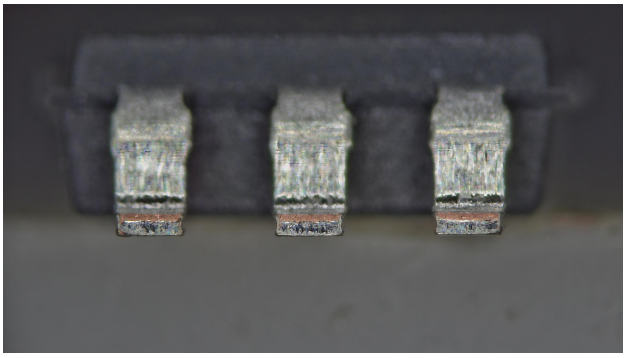
Top View of Pin Fig11



Bottom View of Pin Fig12



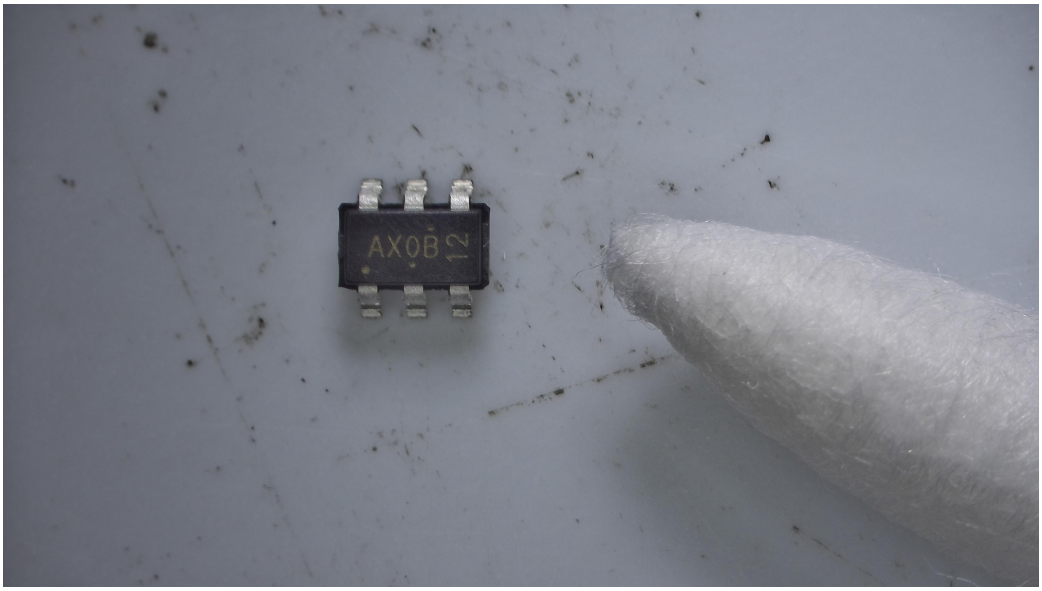
Side View of Pin Fig13



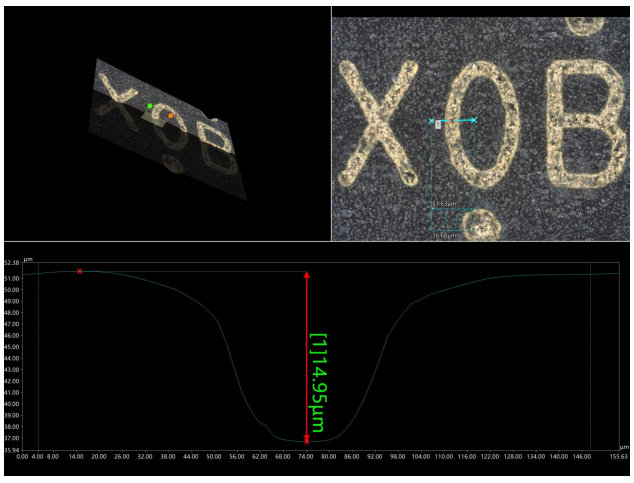
Pin cross-section Fig14

1.4 Aceton Inspection

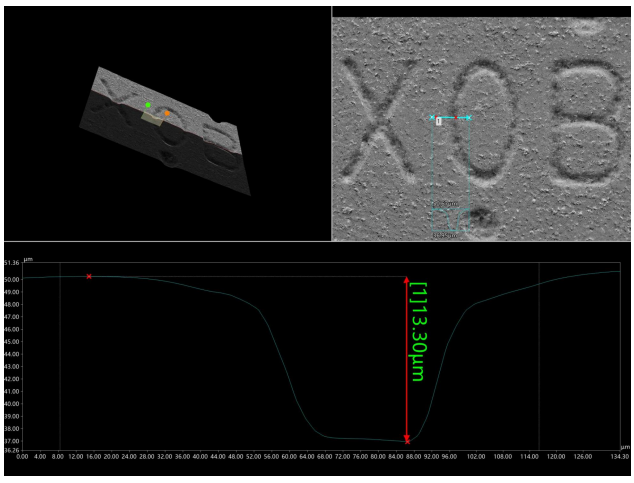
After the surface and side of the sample were wiped back and forth with acetone for 3 times, the mark was still clearly visible, there was no obvious secondary coating, the depth of the mark did not change significantly under the EMS(Electron Microscope Scan),and the cotton swab was not blackened and other abnormal phenomena.



Acetone Test Fig15



#1 Electronic measurements Fig16



#2 Electronic measurements Fig17

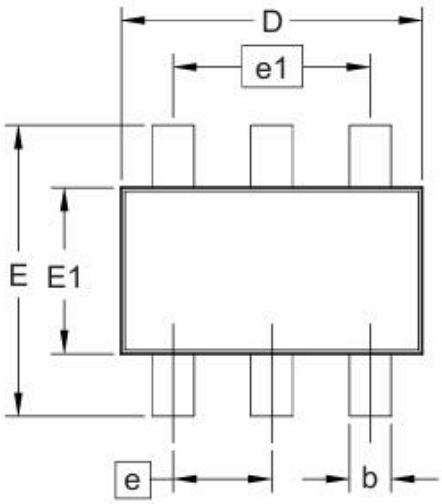
1.5 Dimension Measurement

- All size of the samples meet the requirement of the specifications.

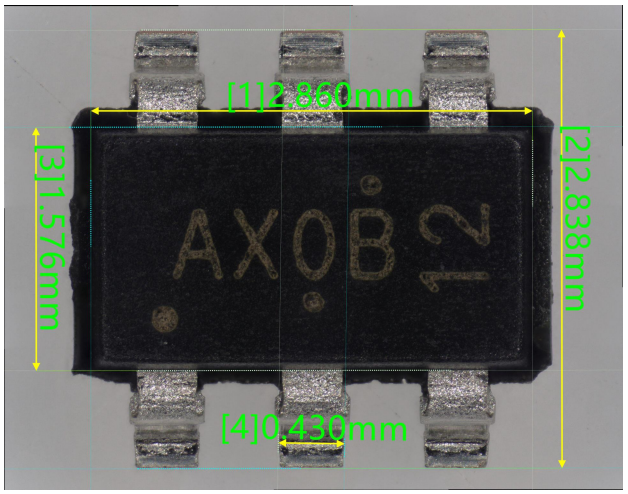
Length：2.87mm Fig18

Width：1.57mm Fig19

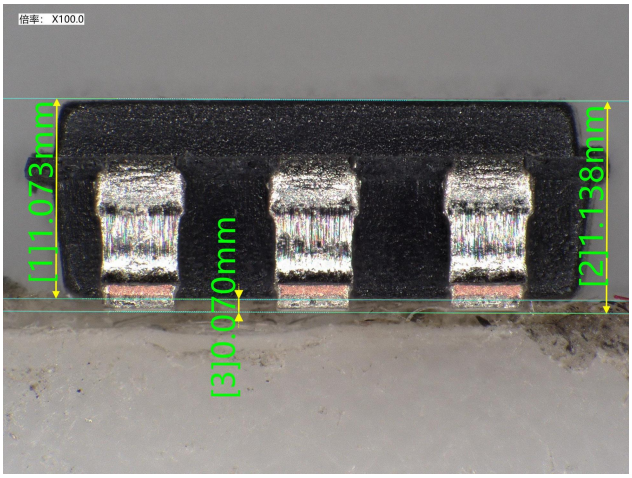
Thicknesses：1.11mm Fig20



Data Sheet Fig21



#1 Electronic measurements Fig22



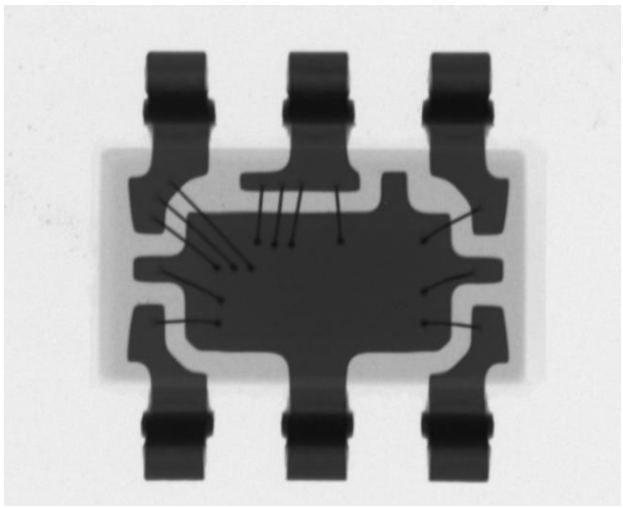
#2 Electronic measurements Fig23

Measurement data:

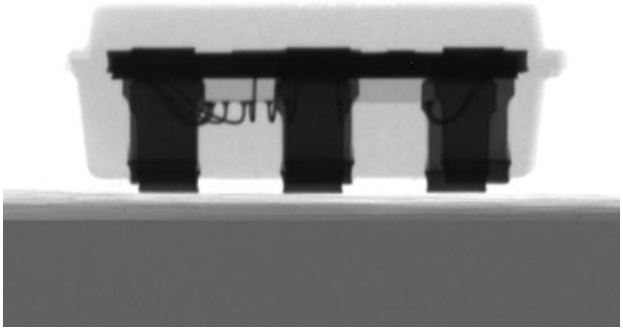
Sample number	Length/mm	Width/mm	Thicknesses/mm	Result
#1	2.87	1.57	1.11	PASS
#2	2.86	1.58	1.07	PASS
#3	2.86	1.57	1.10	PASS
#4	2.88	1.58	1.11	PASS
#5	2.89	1.59	1.11	PASS

2.X-Ray Inspection

• X-RAY: The internal structure of the sample is intact， the interface at the output terminal well welded， there were no abnormalities such as broken wires or crossings in the inner coils.

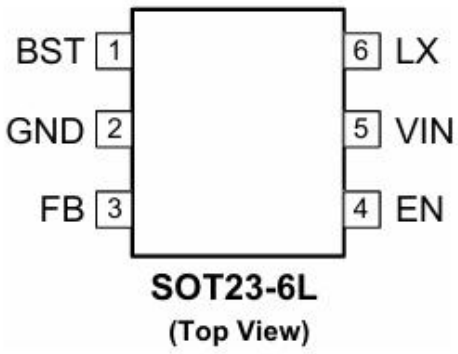


Top View Fig24



Side View Fig25

Side View Fig26



Pin Configuration Fig27

3.List of Test Equipments

NO.	Inspection Item	Type of Equipment	Proofreading Period
1	Video microscope	SWG-N714	2025.04.09~2026.04.08
2	X-Ray	ZM-X5600	2025.04.09~2026.04.08
3	Digital Caliper	Mitutoyo 0-150mm	2025.01.08~2026.01.07
4	3D microscope	VHX-7000	2025.04.09~2026.04.08
5	Tin furnace	QUICK100-15S	2025.04.09~2026.04.08
6	Chemical unpacker	RKD motor-Lithium etching7000	2025.03.18~2026.03.17
Operation Environment		Temperature:15℃~35℃,humidity:30%～60%RH	