235
台灣 新北市
中和區連城路192號6樓
晶睿通訊股份有限公司
JOANNE CHANG

JOANNE CHANG
VIVOTEK INC
6TH FL, 192 LIEN CHENG RD
CHUNG HO DISTRICT
NEW TAIPEI
235 TAIWAN

Date:	2015/07/14
Subscriber:	100504413
PartySite:	125336
File No:	E324690
Project No:	4786954969
PD No:	15O32837
Type:	R
PO Number:	

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue

Date	Vol	Sec	Pages	Revised Date
	X2		Index Page(s)	
2015/07/09	X2	A76	Cert of Compliance	
2015/07/09	X2	A76	Add New Proc/Report Sect	

If there are illegible images in this package, legible images may be found online via MyHome@UL under My UL Reports/CDA."

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at http://www.ul.com/global/eng/pages/corporate/contactus.

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TPI File

Index

Product Type	Model/Type Reference	Report Reference #	Status
Outdoor Network Camera	IP8330, IP8332	E324690-A4-UL	
Network Camera	IP8162,IP8162P, CIVS-IPC-6000P	E324690-A9-UL	
Network Camera	FD8162, FD8162V, FD8362, FD8362E, CIVS-IPC-6020, CIVS-IPC-6030, CIVS-IPC-3530, CIVS-IPC-3535 and CIVS-IPC-3520	E324690-A10-UL	
Network Video Recorder	NR8201, NR8301	E324690-A12-UL	
Network Camera	IP8352	E324690-A13-UL	
Network Camera	FE8171V	E324690-A15-UL	
Video Encoder, 4 Port, Standalone; Video Encoder, 8 Port, Standalone	CIVS-SENC-4P-K9, CIVS-SENC-8P-K9, CIVS-SENC-4P, CIVS-SENC-8P	E324690-A16-UL	
Network Camera	1) MD8562 2) MD8562D	E324690-A17-UL	
Network Camera	IP8362	E324690-A18-UL	
Network Camera	IK-WD14A, IK-WR14A	E324690-A21-UL	
Outdoor Dome Network Camera	FD8372, CIVS-IPC-7030, CIVS-IPC-7030E	E324690-A22-UL	
Network Camera	FE8172, FE8172V, FE8173, FE8174, FE8174V, SF8174, SF8174V	E324690-A25-UL	
Network Camera	IP8332-C	E324690-A28-UL	
Outdoor Speed Dome Network Camera	SD83XXE (X = 0~9, A~Z or blank), CIVS-IPC-6930, CIVS-IPC-2830, CIVS-IPC-2835	E324690-A29-UL	
Network Camera	IP8172, IP8172P	E324690-A30-UL	
Network Camera	CIVS-IPC-6400	E324690-A31-UL	
Network Camera	CIVS-IPC-3421V	E324690-A33-UL	
Indoor Dome Network Camera	FD8136-FXX (The XX=0-9, A-Z or blank for marketing purpose)	E324690-A34-UL	
Network Camera	IK-WR04A, IK-WD04A	E324690-A36-UL	
Network Camera	IP8372	E324690-A37-UL	
IP Camera VGA	S5003FDXXXXXXXXXXXX (X can be 0-9, A-Z, a-z, blank or "-", and no impact safety related critical components and construction.)	E324690-A38-UL	
Network Camera	IK-WB81A	E324690-A39-UL	
1080P Fixed Dome Network Camera	FD8163, FD8363	E324690-A40-UL	
Network Camera	FD8355EHV, FD8365EHV	E324690-A49-UL	
Network Camera	IK-WD05A, IK-WR05A	E324690-A50-UL	
Network Camera	FD8371EV	E324690-A51-UL	
Network Camera	CIVS-IPC-6400E	E324690-A52-UL	
Network Camera	IP8355EH, IP8365EH	E324690-A53-UL	
Network Camera	CIVS-IPC-6500PD	E324690-A54-UL	
Network Camera	CIVS-IPC-7530PD	E324690-A56-UL	
Network Camera	CIVS-IPC-3050, MD8531H-FXX, MD8531H-FXX(W)(X= 0-9, a-z, A-Z, "-", "/" or blank for marketing purpose)	E324690-A58-UL	

Network Camera	IP8155HP, IP8165HP	E324690-A59-UL	
Network Camera	FD8152V-FX(B), FD8152V-FX(W) (X=0-9,a-z,A-Z,"-","1" or blank for marketing purpose: (B) Black for enclosure color; (W) White for enclosure color).	E324690-A60-UL	
Network Camera	FE8181, FE8181V, FE8191 ,FE8391-V, CIVS-IPC-7070	E324690-A61-UL	
Network Video Recorder	ND8401	E324690-A62-UL	
Camera	IB8367, IB8367-R, IB8367-T, IB8367-RT	E324690-A63-UL	
Network Camera	SD8161, SD8161-XX (X = 0-9, a-z, A-Z or blank for marketing purpose)	E324690-A64-UL	
Network Camera	IB8338-H, IB8338-HR	E324690-A66-UL	
Network Camera	FD8173-H, FD8373-EHV	E324690-A67-UL	
Network Camera	FD8181, FD8381-EV	E324690-A68-UL	
Network Camera	IK-WD31A, IK-WR31A	E324690-A71-UL	
Network Camera	IB8373-EH	E324690-A72-UL	
Network Camera	FD8167, FD8167-T, FD8138H (indoor use) FD8367-V, FD8367-TV, FD8338-HV (outdoor use)	E324690-A73-UL	
Network Camera	IP816A-HP	E324690-A74-UL	
Network Camera	IK-WF51A, IK-WF51R	E324690-A75-UL	
Stereo Camera	SC8131	E324690-A76-UL	

CERTIFICATE OF COMPLIANCE

Certificate Number	20150714-E324690
Report Reference	E324690-A76-UL
Issue Date	2015-JULY-14
Issued to:	VIVOTEK INC 6TH FL, 192 LIEN CHENG RD CHUNG HO DISTRICT NEW TAIPEI 235 TAIWAN
This is to certify that representative samples of	INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS EQUIPMENT Stereo Camera SC8131
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07- Information Technology Equipment - Safety - Part 1: General Requirements
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Listing
CCN:	NWGQ, NWGQ7 (Information Technology Equipment Including Electrical Business Equipment)
Product:	Stereo Camera
Model:	SC8131
Rating:	36-57Vdc, 0.36-0.23A
Applicant Name and Address:	VIVOTEK INC 6TH FL, 192 LIEN CHENG RD CHUNG HO DISTRICT NEW TAIPEI 235 TAIWAN

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Prepared by: Lily Su Reviewed by: Chris Kao

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Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

A. Authorization - The Authorization page may include additional Factory Identification Code markings.

B. Generic Inspection Instructions -

i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.

ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.

iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

The equipment is a Class III Camera, consists of electronic components mounted on PWB and is equipped with two CMOS sensors then housed within metal/plastic enclosure, also provides RJ45, and Terminal block, which is used to connect external input/output devices.
The equipment intended to install on the wall or ceiling.

Model Differences

N/A

Technical Considerations

- Equipment mobility : stationary
- Connection to the mains : N/A
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC I
- Mains supply tolerance (%) or absolute mains supply values : No direct connection
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class III (supplied by SELV)
- Considered current rating of protective device as part of the building installation (A) : N/A
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : Up to 2000
- Altitude of test laboratory (m) : Below 2000
- Mass of equipment (kg) : Unit only: 0.40 kg; Mounting means only: 0.07 kg
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer’s specification of: 40°C
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): All output ports
- The following are available from the Applicant upon request: Installation (Safety) Instructions /

Manual

- LEDs provided in the product are considered low power devices: Yes
- This equipment is to be connected only to PoE networks without routing to the outside plant.

Additional Information

Indoor use only.

Markings and instructions

Clause Title	Marking or Instruction Details
Inter-connecting cables - External detachable	Listee's Name and Part number (Marking or Instruction)
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
Power rating - Model	Model Number
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Manual	See enclosure 6-01.

Special Instructions to UL Representative

N/A

Production-Line Testing Requirements

Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
N/A	-	-	-	-	-	-

Earthing Continuity Test Exemptions - This test is not required for the following models:

All Models

Electric Strength Test Exemptions - This test is not required for the following models:

All Models

Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

-

Sample and Test Specifics for Follow-Up Tests at UL

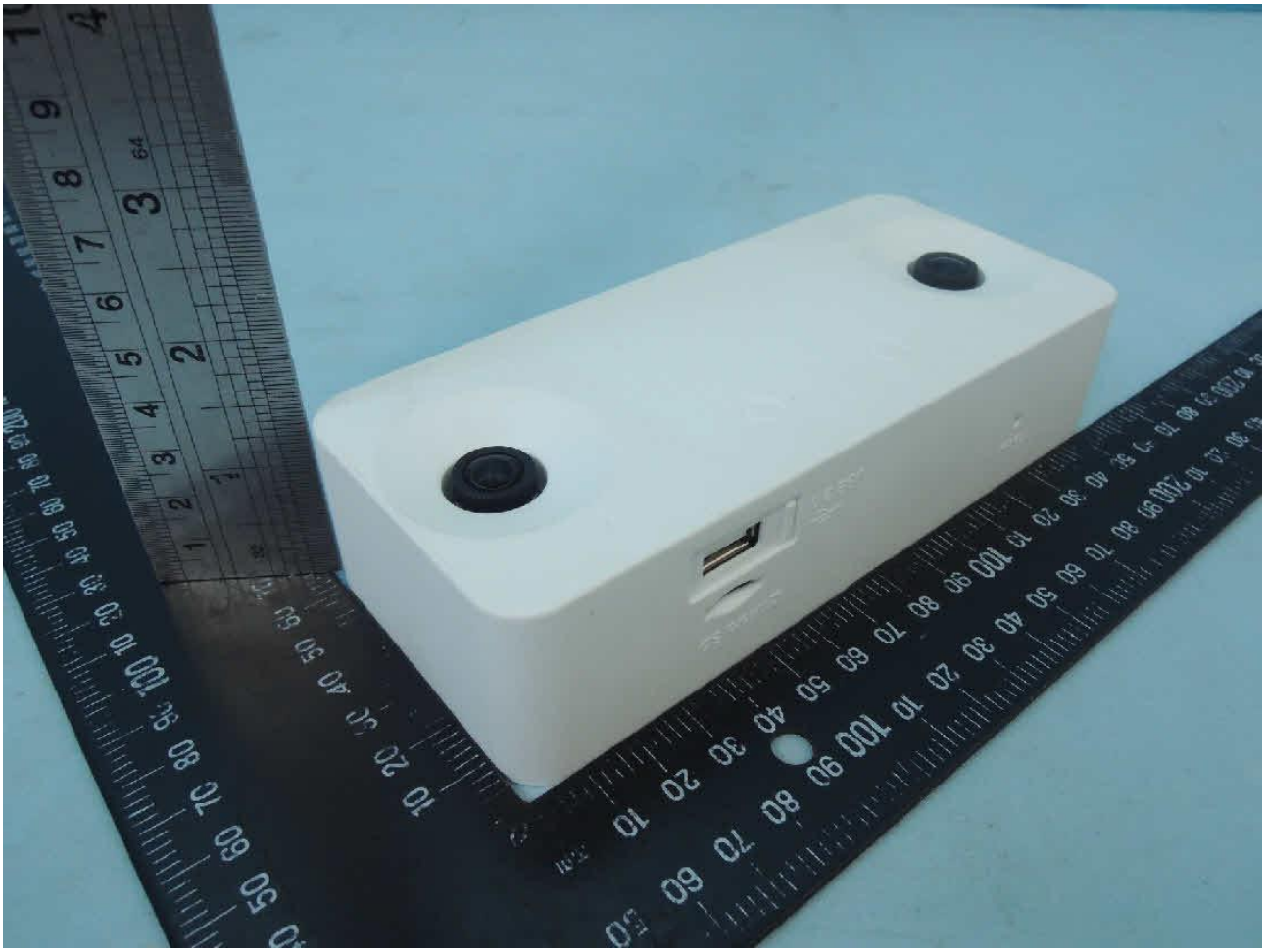
Model	Component	Material	Test	Sample(s)	Test Specifics
-	-	-	-	-	-

1.5.1	**TABLE: list of critical components**					Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01. Label	Various	Various	70 degree C if max. Surface temperature is not specified.	PGDQ2, PGJI2	UL	
02. Plastic Enclosure	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-7000(v)	V-1 minimum, 2.0 mm thickness minimum, 85 degree C, overall see Enclosure /Diagrams ID 4-01 for details	QMFZ2	UL	4-01
02-1. Metal Enclosure	--	--	Aluminum, 2.0 mm thickness minimum, overall see Enclosure /Diagrams ID 4-01 for details.	--	--	4-01
03. Wiring, internal secondary SELV circuits	Various	Various	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1, min 30V, 60 degree C	AVLV2	UL	
04. Internal Plastic Part/Materials	Various	Various	Rated HB minimum.	QMFZ2	UL	
05. PWB	--	--	V-1 minimum, 105 degree C minimum	ZPMV2	UL	
06. Transformer of PoE (T1)	AUDIX TECHNOLOGY (XIAMEN) Co., LTD.	POE13F-12L	105 degree C. see Enclosure/Diagrams ID 4-04 for details.	--	--	4-04
06a. Transformer of PoE (T1) (Alternate)	Acroparts Technology Co., Ltd.	13W12V	105 degree C. see Enclosure/Diagrams ID 4-03 for details.	--	--	4-03
07. Electric Double Layer Capacitor (BT1)	ELNA CO., LTD	DX Series	Rated 0.33F.	--	--	
08. Connectors and Receptacles (secondary SELV circuits)	Various	Various	Metal/plastics, Copper alloy pins housed in bodies of plastic rated HB min.	DUXR2, RTRT2, ECBT2, QMFZ2	UL	
09. Interconnecting Cable (Optional)	Various	Various	Maximum length 3.05 m. FEP, PTFE, PVC, TFE, neoprene, polyimide or rated VW-1 or FT-1. Minimum 80 degree C.	AVLV2 or ZPFW2	UL	

			Minimum 30 V.			
09a. Interconnecting Cable (Optional) (alternate)	Various	Various	Maximum 3.05 m long, type CMP, CMR, CMG, CM, CMX, CMUC, or CMH.	DUZX or ZPFW2 or DUXR/2	UL	
10. Mounting Kit (optional)	--	--	Metal, overall see Enclosure/Diagrams ID 4-02 for detail.	--	--	4-02
10-1 Mounting Screw	--	--	M2.5 type.	--	--	

Enclosures

Type	Supplement Id	Description
Photographs	3-01	Overall views-1
Photographs	3-02	Overall views-2
Photographs	3-03	Connector view-1
Photographs	3-04	Connector view-2
Photographs	3-05	Internal views-1
Photographs	3-06	Internal views-2
Photographs	3-07	Internal views-3
Photographs	3-08	Mainboard Views-1
Photographs	3-09	Mainboard Views-2
Photographs	3-10	I/O board Views-1
Photographs	3-11	I/O board Views-2
Photographs	3-12	SENSOR-R board Views-1
Photographs	3-13	SENSOR-R board Views-2
Photographs	3-14	SENSOR-L board Views-1
Photographs	3-15	SENSOR-L board Views-2
Diagrams	4-01	Enclosure dimension drawing
Diagrams	4-02	Mounting Kit dimension drawing
Diagrams	4-03	PoE Transformer Spec. (Acroparts/13W12V)
Diagrams	4-04	PoE Transformer Spec. (AUDIX/POE13F-12L)
Manuals	6-01	Manual



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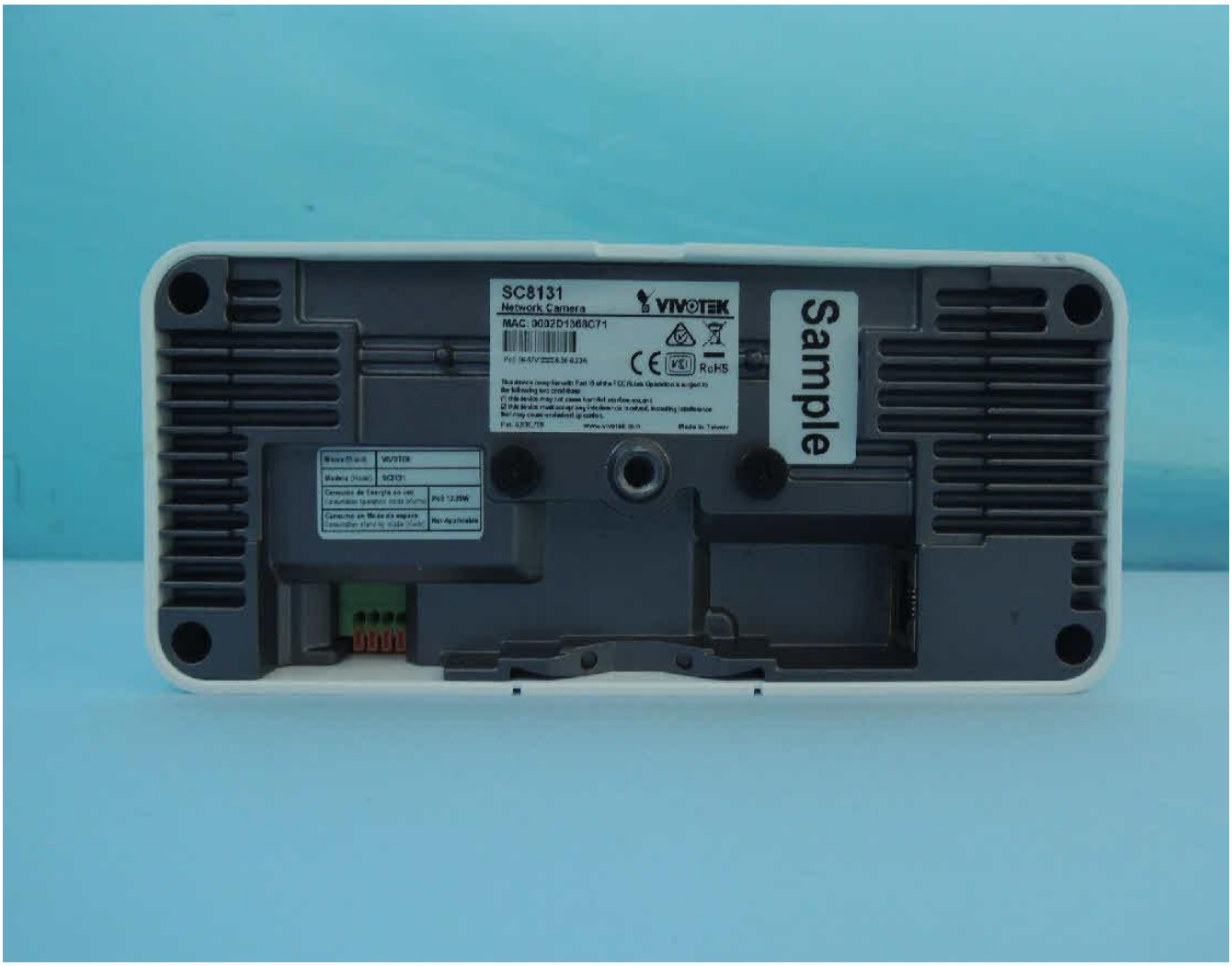
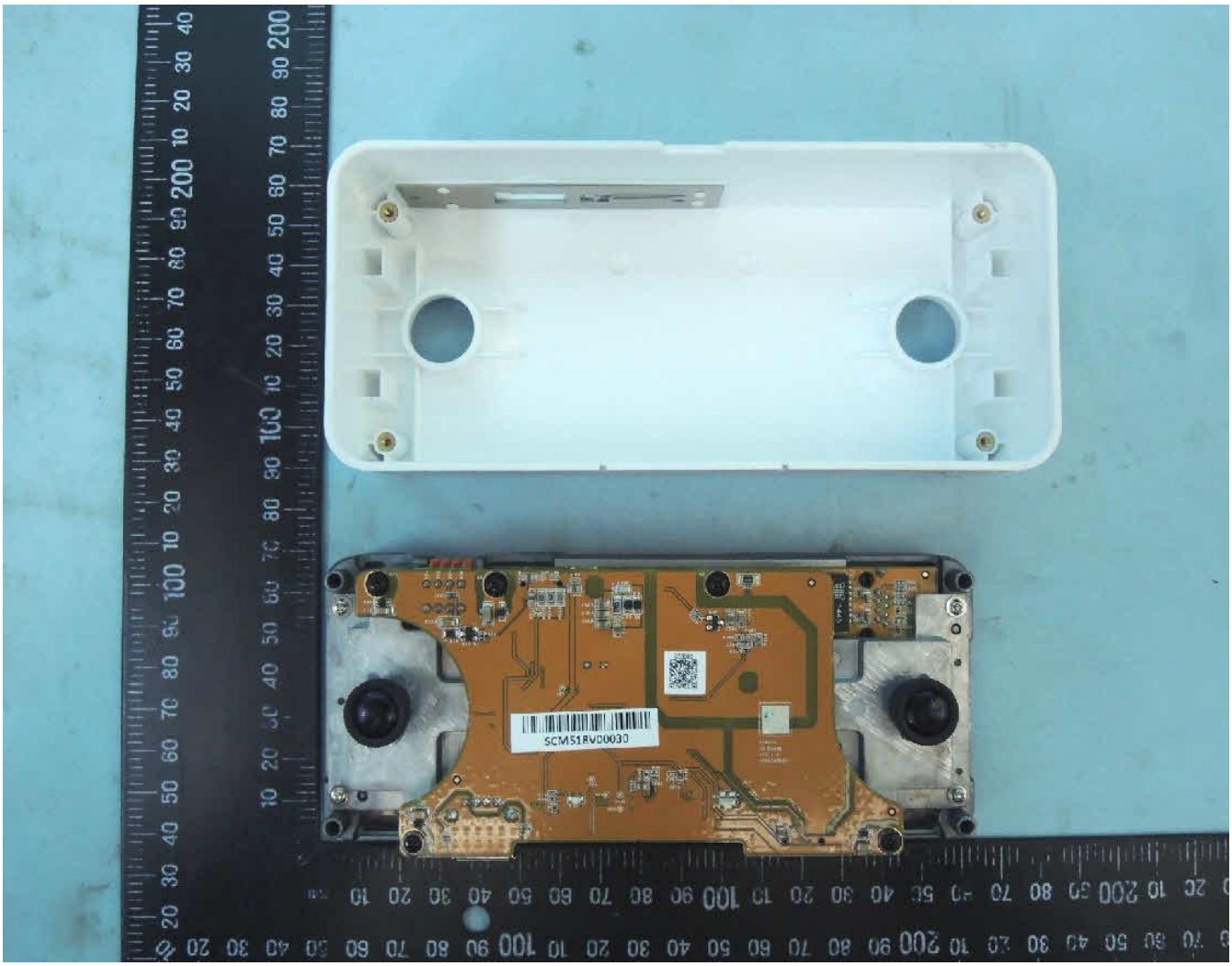
WARRANTY VOID
IF SEAL BROKEN

Reset
micro SD
USB 2.0


SC8131
Network Camera
VIVOTEK
MAC: 0002D1368C71
RoHS
Sample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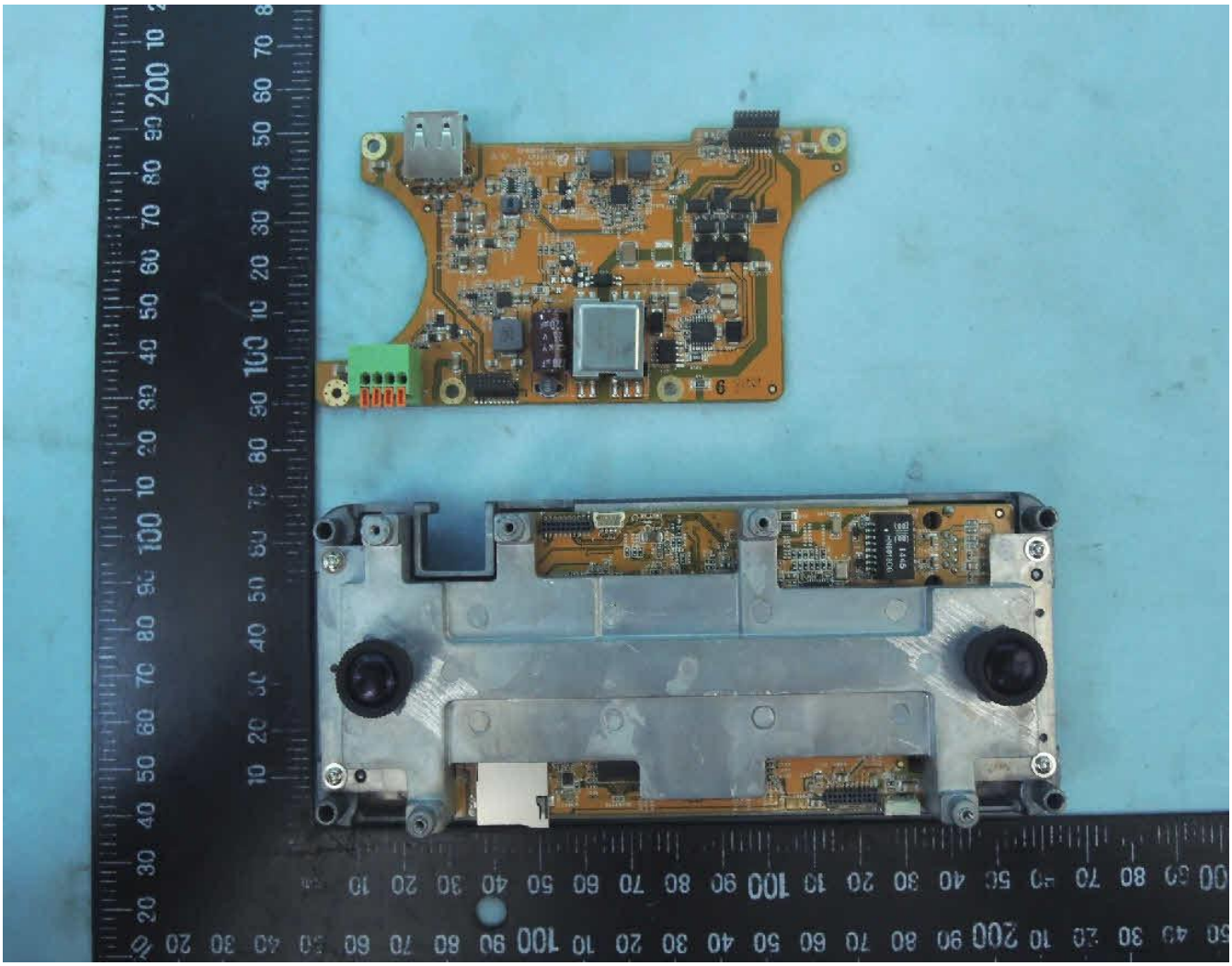

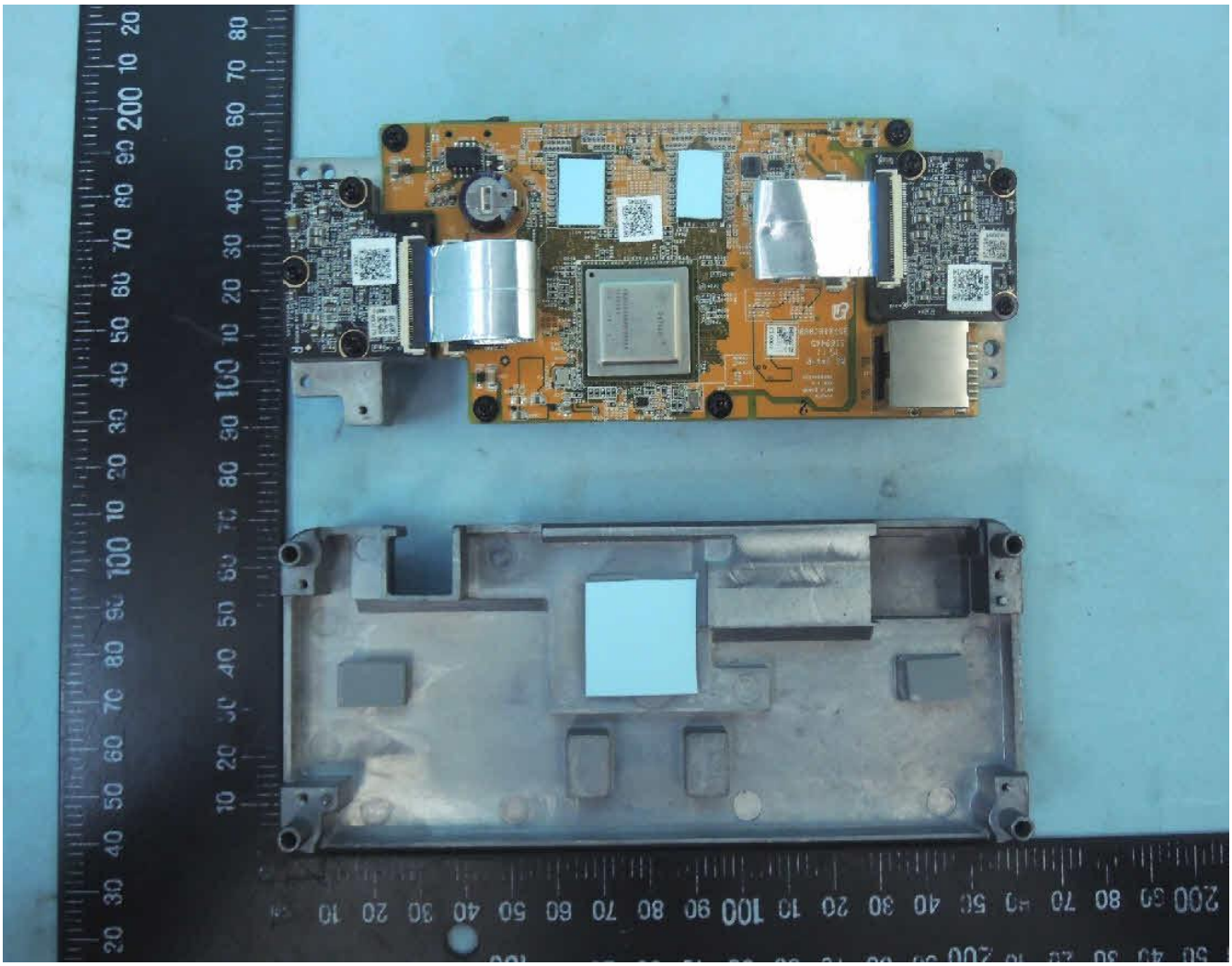

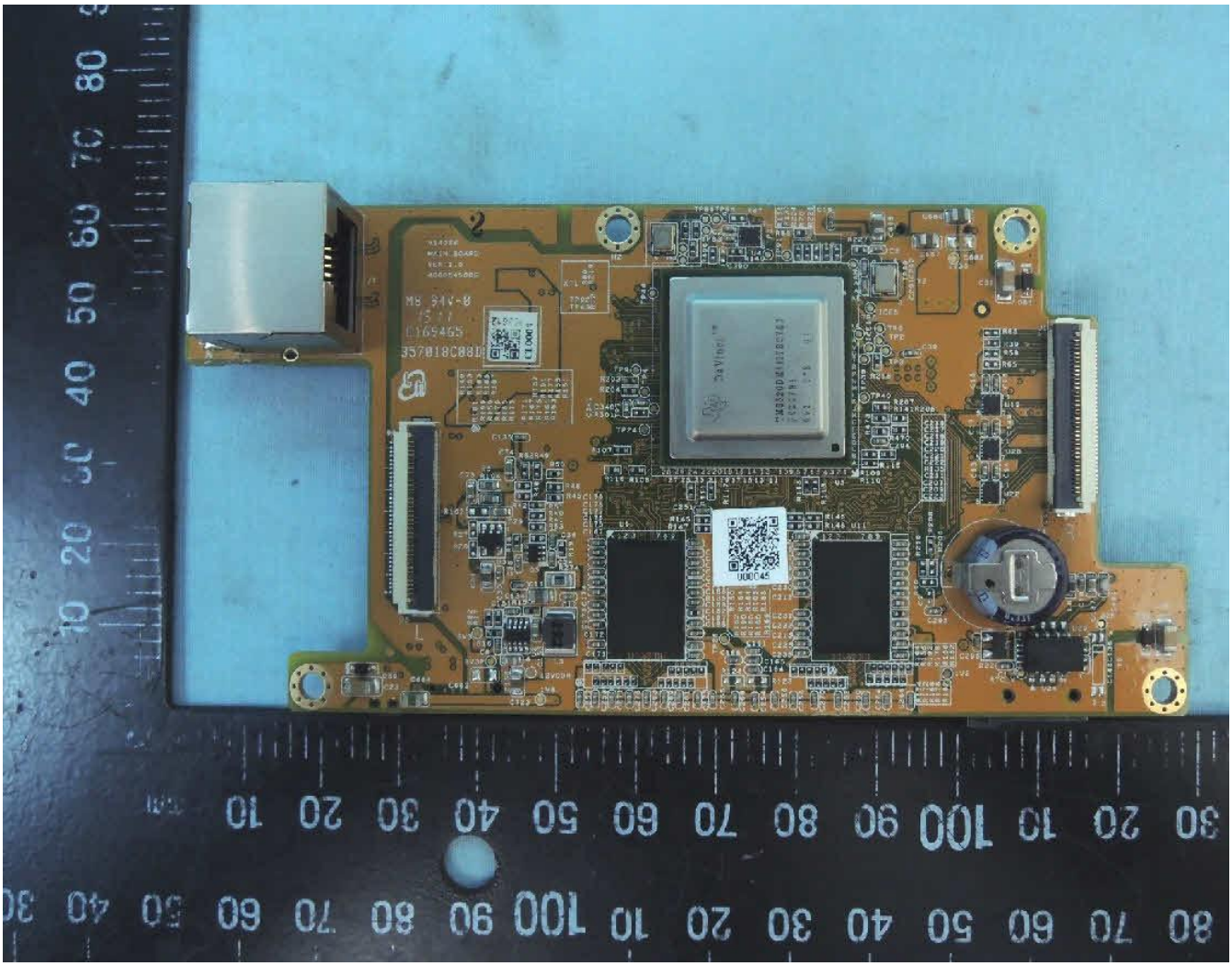

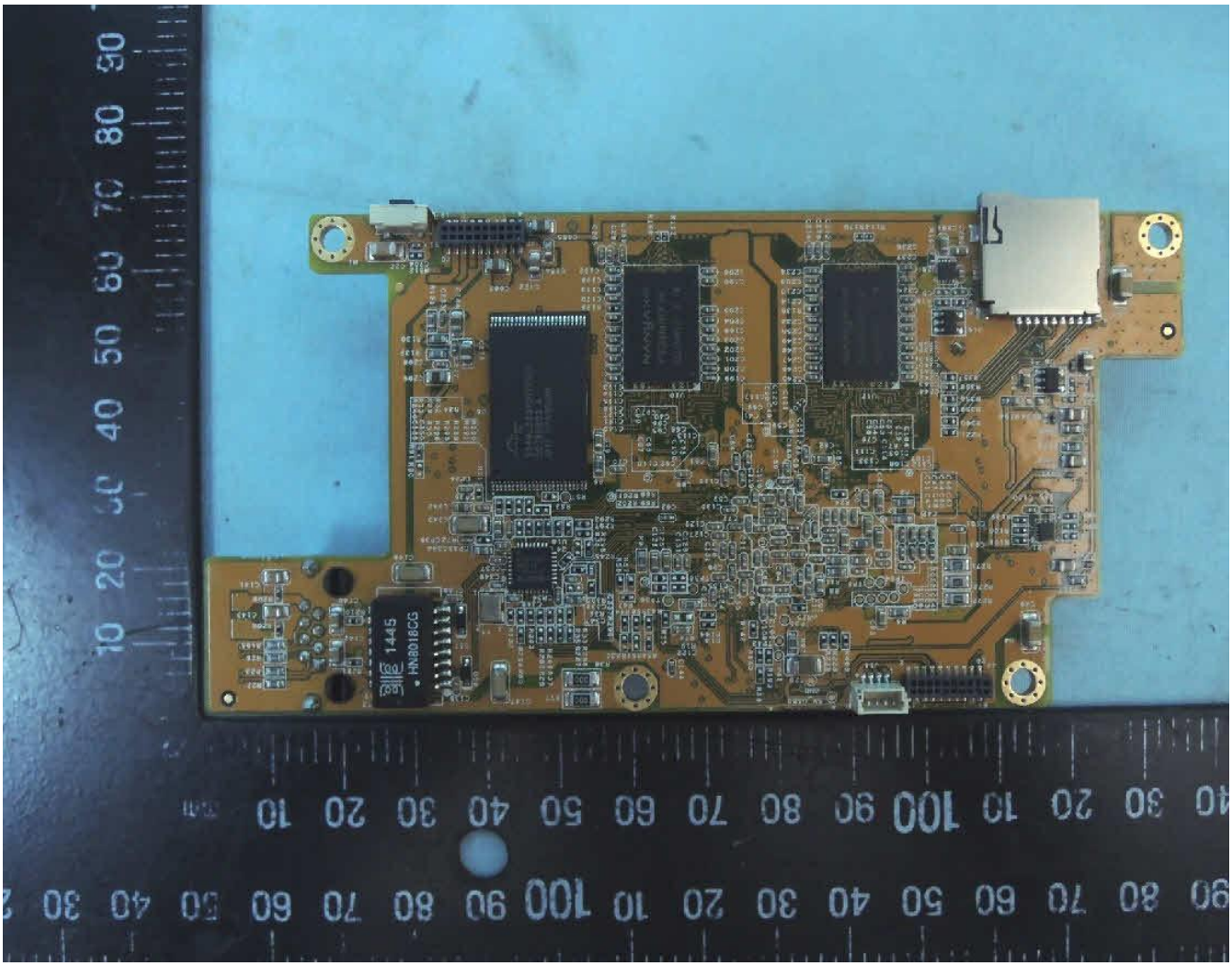
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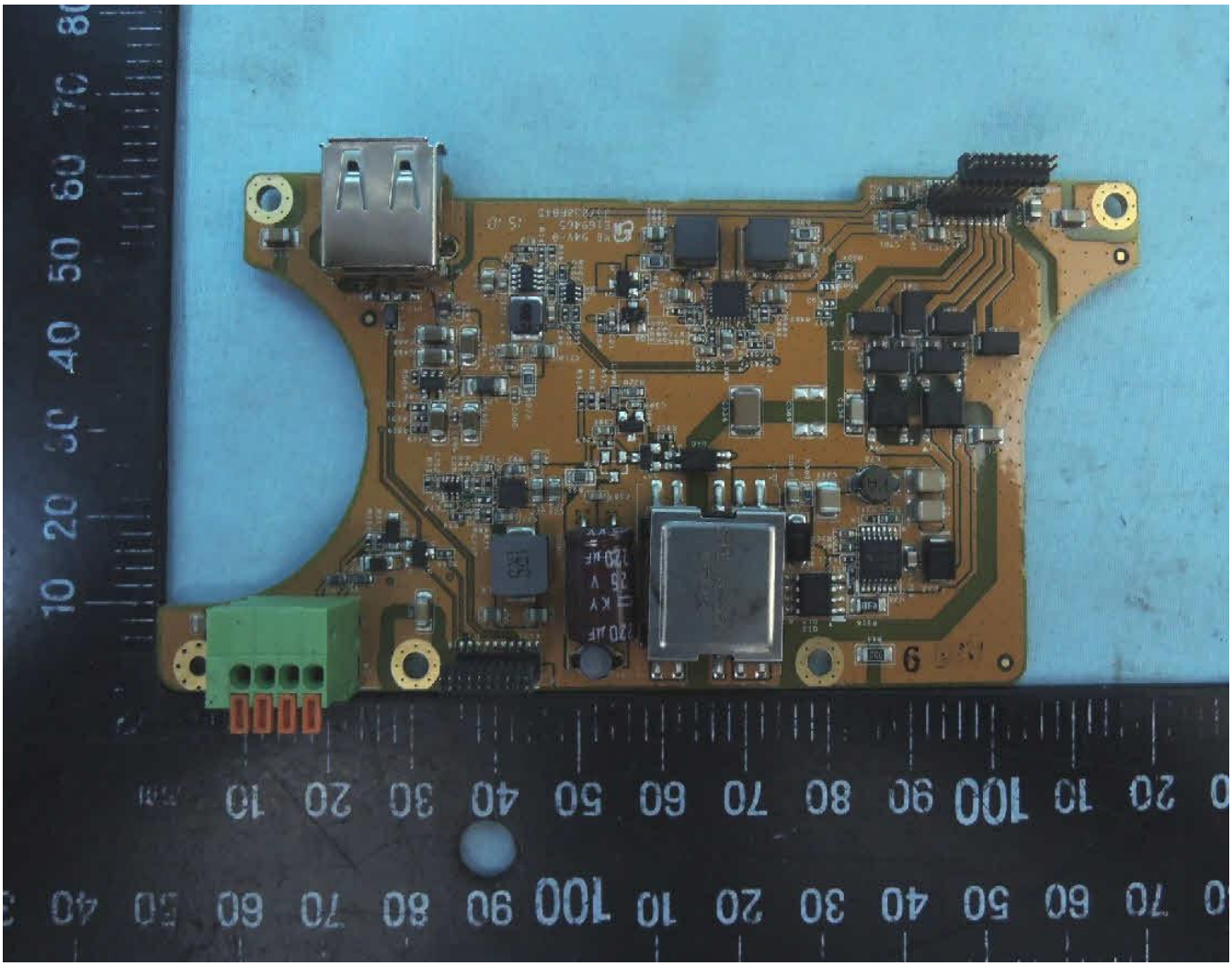

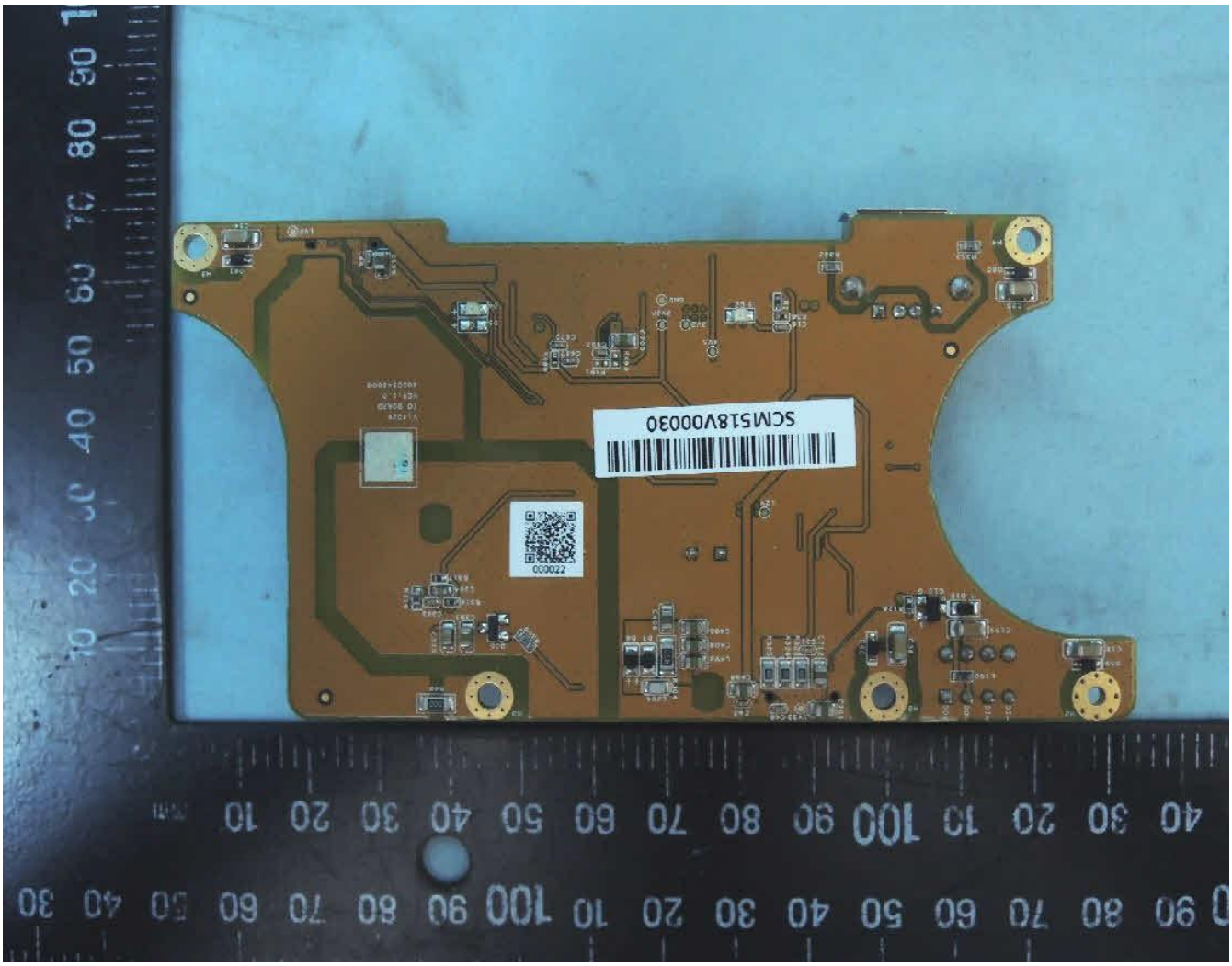
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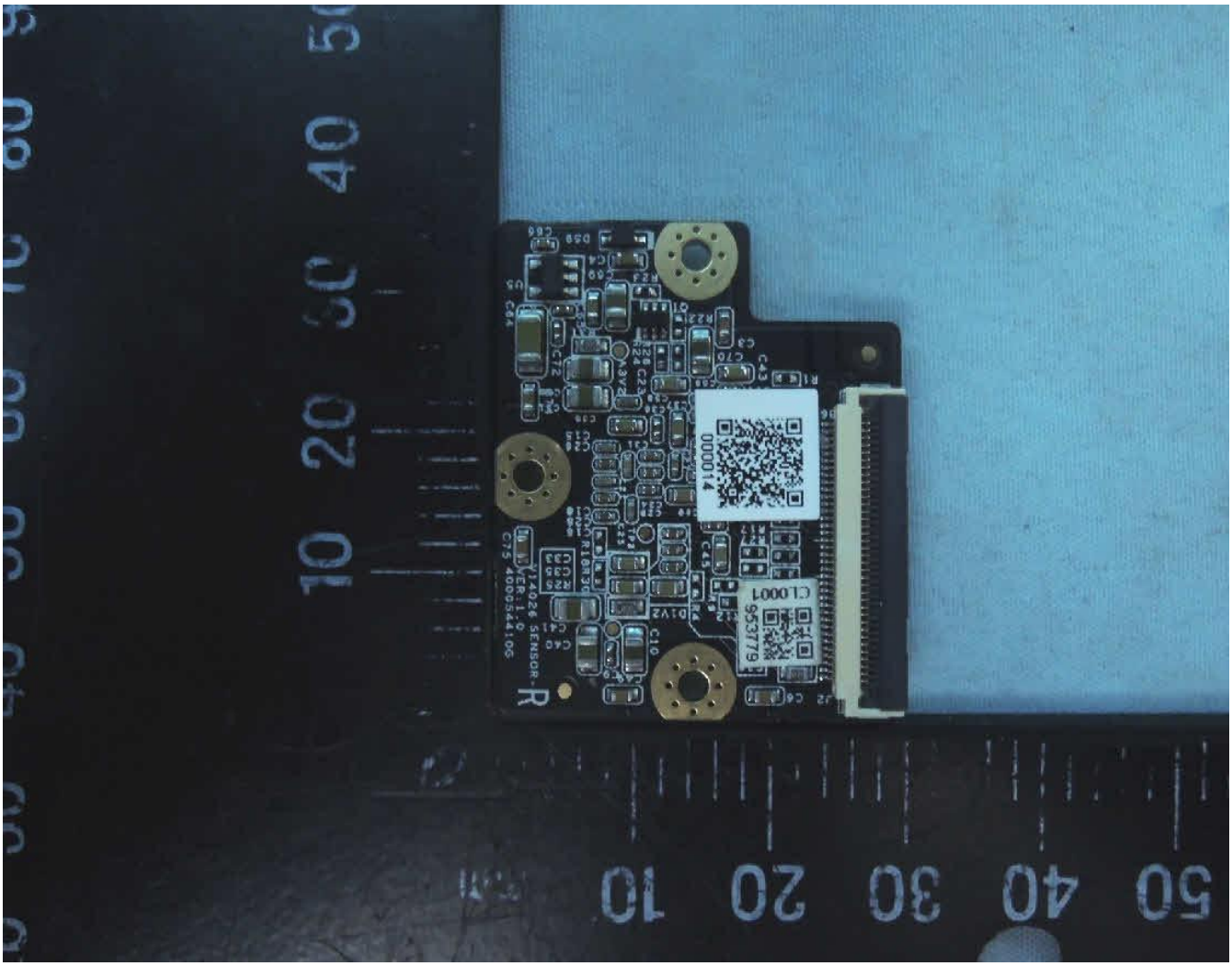
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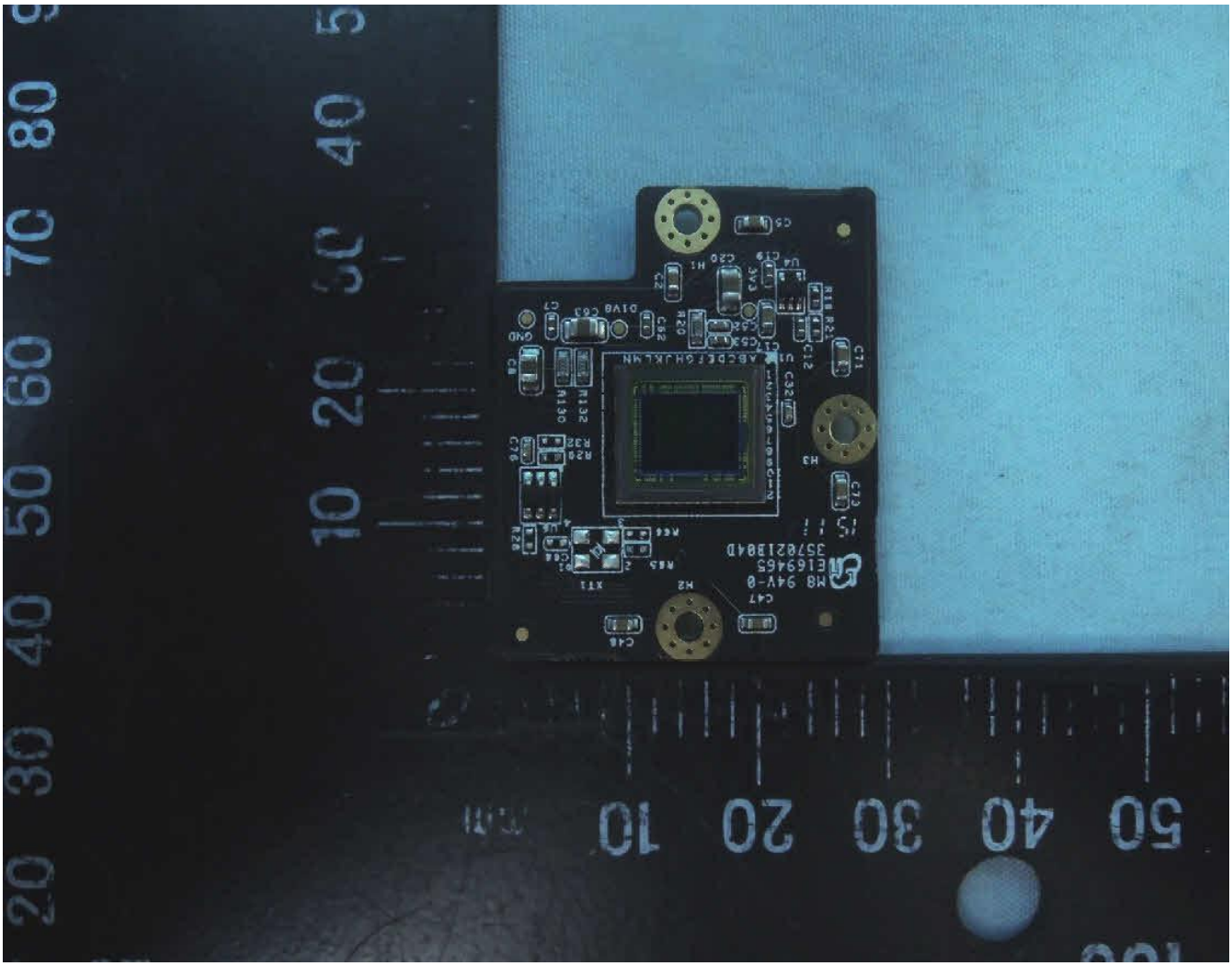
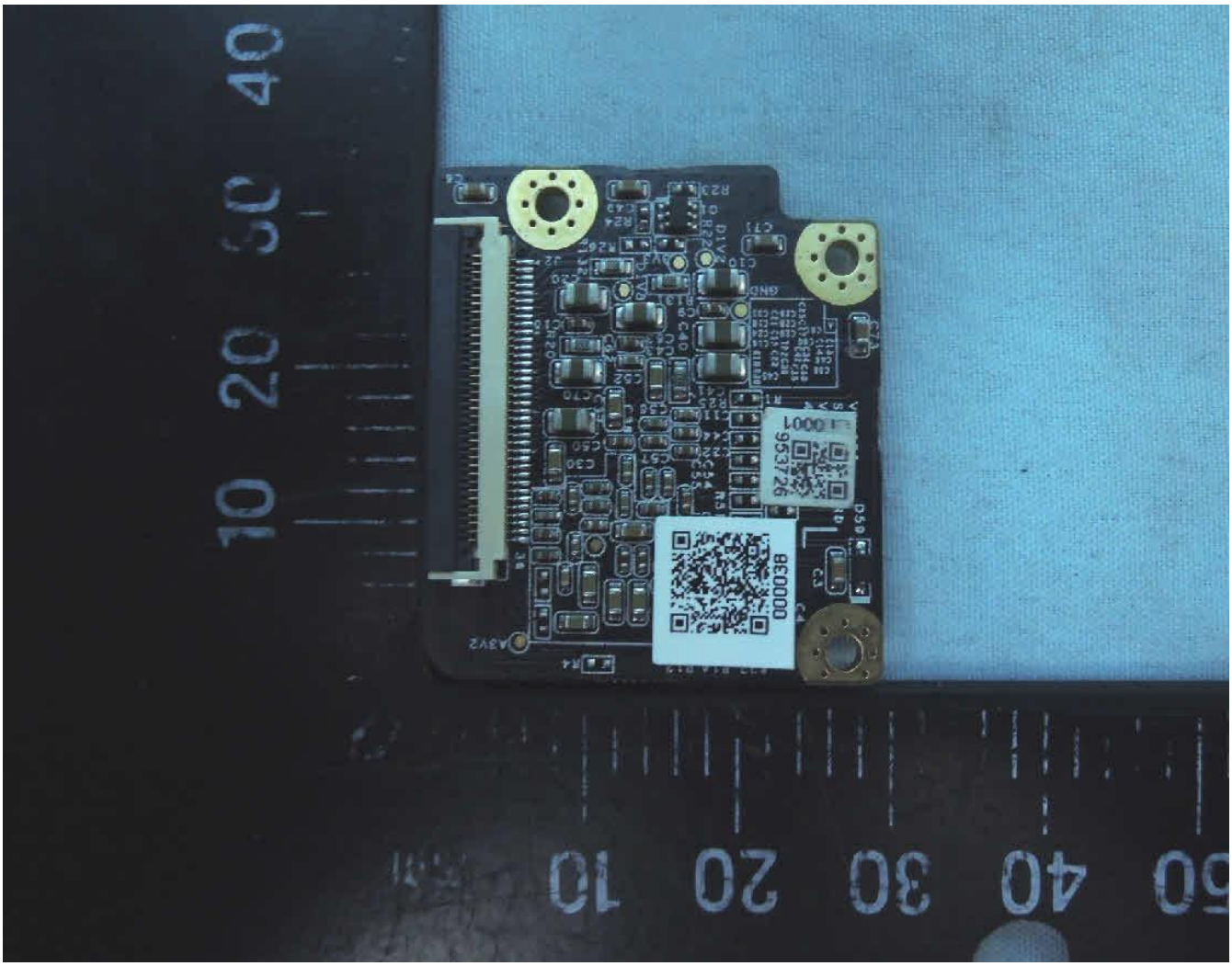
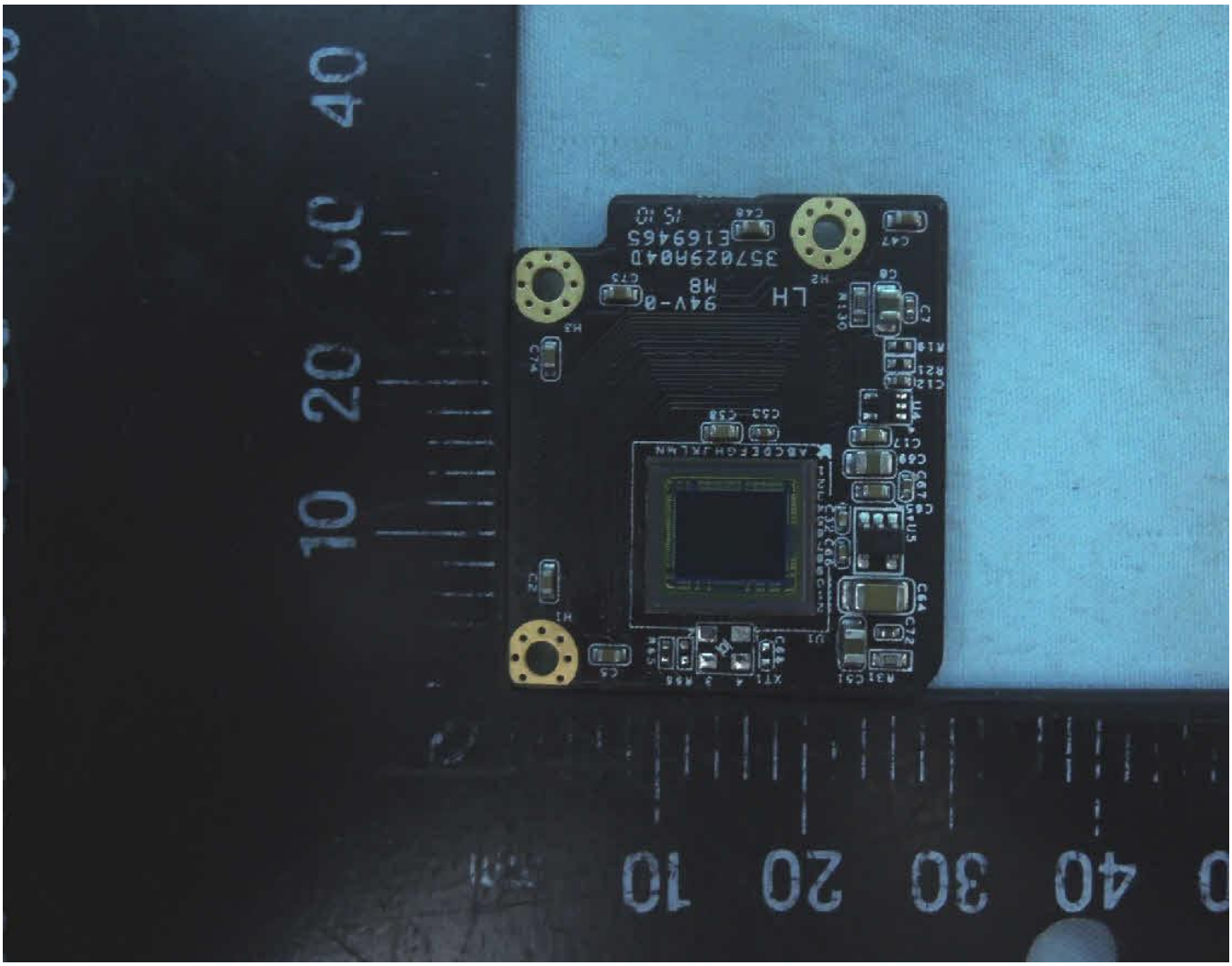
CL0001
953779
SENSOR-
R



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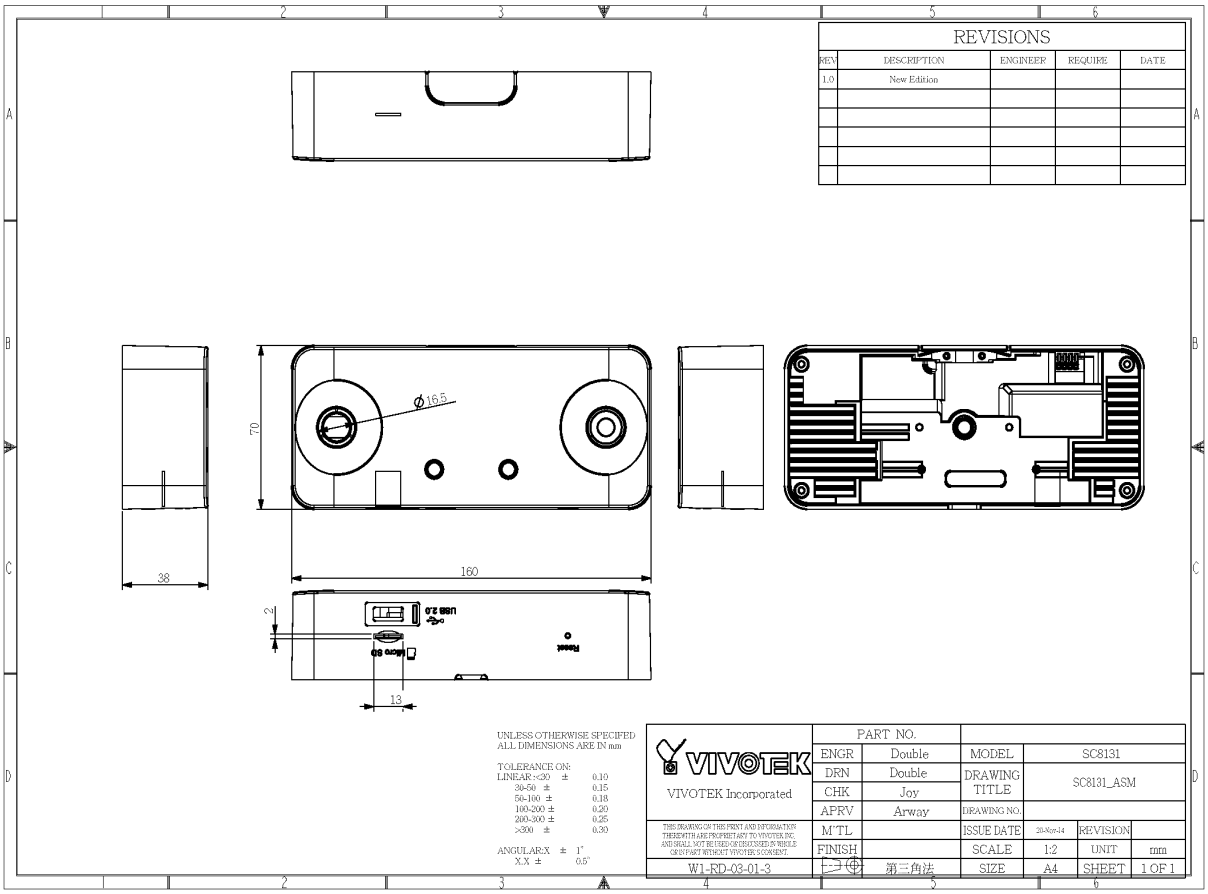
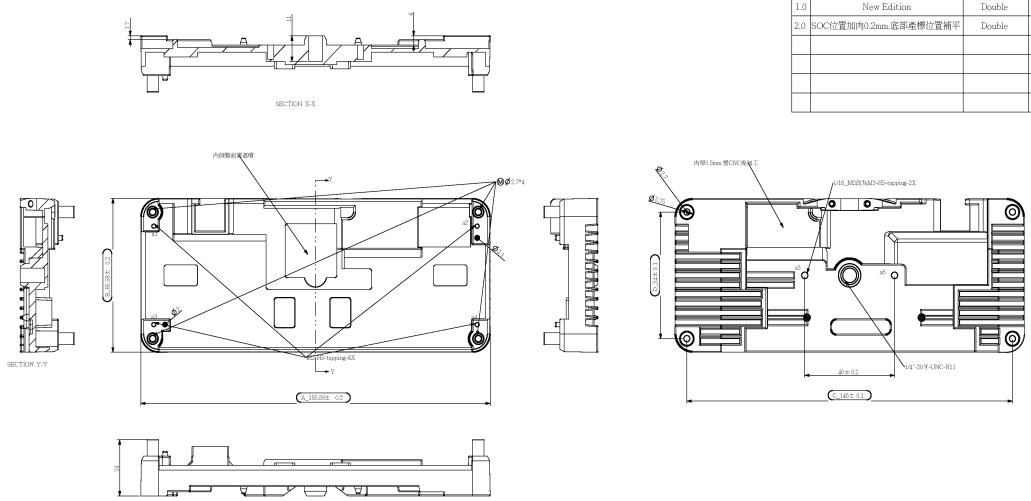

REVISIONS
REV DESCRIPTION ENGINEER REQUIRE DATE
1.0 New Edition
ϕ16.5
70
160
38
2
13
Micro SD
USB 2.0
Reset
UNLESS OTHERWISE SPECIFED
ALL DIMENSIONS ARE IN mm
TOLERANCE ON:
LINEAR :<20 ± 0.10
20-50 ± 0.15
50-100 ± 0.18
100-200 ± 0.20
200-300 ± 0.25
>300 ± 0.30
ANGULAR:X ± 1°
X.X ± 0.5°
VIVOTEK
VIVOTEK Incorporated
PART NO.
ENGR Double
DRN Double
CHK Joy
APRV Arway
M'TL
FINISH
W1-RD-03-01-3
THIS DRAWING OR THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO VIVOTEK INC. AND SHALL NOT BE USED OR DISCLOSED IN WHOLE OR IN PART WITHOUT VIVOTEK'S CONSENT.
第三角法
MODEL SC8131
DRAWING TITLE SC8131_ASM
DRAWING NO.
ISSUE DATE 20-Nov-14
REVISION
SCALE 1:2
UNIT mm
SIZE A4
SHEET 1 OF 1

機 密|CONFIDENTIAL

REVISIONS				
REV	DESCRIPTION	ENGINEER	REQUIRE	DATE
1.0	New Edition	Double		13-Jan-15
2.0	SOC位置加肉0.2mm,底部產標位置補平	Double		8-May-15



正式圖面

注意事項:
1.材質:AL(ADC12)
2.部品必須後加工，包含部分CNC加工製程，相關加工細則，請依據圖面標示施做
3.部品需要烤漆鐵灰色，細織紋，遮烤部分請依據遮烤示意圖面施做
5.成品色差請依據PANTONE或參考色樣為標準，dE<1.5
6.成品表面不可有:成型不良痕跡、破損、油汙、積漆與毛邊，外觀級別請參照圖面標示，相關檢驗細則，請依據[金屬壓鑄類檢驗作業規範]為標準
7.橢圓符號框選尺寸為重點檢驗尺寸(成品尺寸，非素材數值)，請依據圖面標示量測
8.參考尺寸以配合組裝為主要考量，必要時需要額外實配檢驗
9.部品需符合RoHS規範並檢附相關報告

UNLESS OTHERWISE SPECIFED
DIMENSIONS ARE IN mm

TOLERANCE ON:

30-50 ±	0.10
50-100 ±	0.15
100-200 ±	0.18
200-300 ±	0.20
>300 ±	0.25
	0.30

ANGULAR:X ± 1°
X.X ± 0.5°

VIVOTEK
VIVOTEK Incorporated

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W1-RD-03-01-4

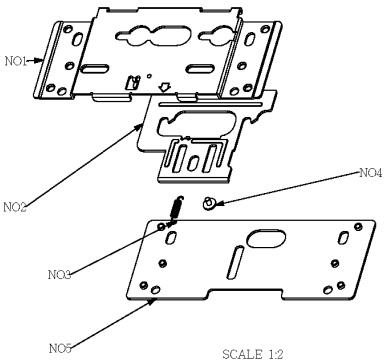
PART NO.		600092000G			
ENGR	Double	MODEL	SC8131		
DRN	Double	DRAWING TITLE	SC8131_BOTTOM		
CHK	Joy				
APRV	Arway	DRAWING NO.	FORM-V02_2014-12-16		
M'TL	AL	ISSUE DATE	13-Jan-15	REVISION	2.0
FINISH	鐵灰色噴漆	SCALE	1:1	UNIT	mm
	第三角法	SIZE	A2	SHEET	1 OF 1

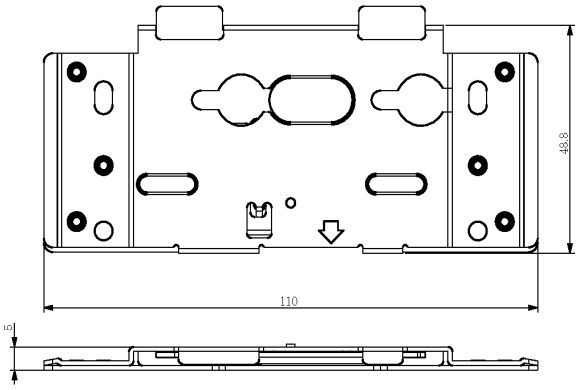
NO.	PN.	Model Name	Model Description	Qty
1.	602020700G	SC8131_WALL_BRACKET		1
2.	602020800G	SC8131_WALL_BK_COVER		1
3.	610071400G	FD8167 SPRING		1
4.	611041100G	頂頂機械SCREW_M2*3.耐落		1
5.	602021800G	SC8131_WALL_PLANE		1

機 密|CONFIDENTIAL

REVISIONS

REV	DESCRIPTION	ENGINEER	REQUIRE	DATE
1.0	New Edition	Double		09-Apr-15
2.	指面新增WALL_PLANE鎖合	Double		07-May-15





正式圖面

UNLESS OTHERWISE SPECIFED
ALL DIMENSIONS ARE IN mm

TOLERANCE ON:
LINEAR :<30 ± 0.10
30-50 ± 0.15
50-100 ± 0.18
100-200 ± 0.20
200-300 ± 0.25
>300 ± 0.30

ANGULAR:X ± 1°
X.X ± 0.5°

VIVOTEK
VIVOTEK Incorporated

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W1-RD-03-01-4

PART NO.		609033301G			
ENGR	Double	MODEL	SC8131		
DRN	Double	DRAWING TITLE	SC8131_WALL_MOUNT_ASM		
CHK	Joy				
APRV	Arway	DRAWING NO.	FORM-V02_2014-12-16		
M'TL		ISSUE DATE	09-Apr-15	REVISION	2.0
FINISH		SCALE	1:1	UNIT	mm
第三角法		SIZE	A4	SHEET	1 OF 1

ATC 碩哲科技股份有限公司
ISO9001 ACROPARTS TECHNOLOGY CO.,LTD.

SPECIFICATION FOR APPROVAL

CUSTOMER：	晶睿通訊股份有限公司
CUSTOMER P/N：	350016200G
ATC P/N：	13W12V SW-FD15SH-5201-10035A
QUANTITY：	5 PCS
DATE：	2011.06.01

Please confirm your acceptance of this approval sheet by return fax.

☐ APPROVED

☐ REJECTED

RoHS
危害物質限用

DRAWN BY	CHECKED BY	APPROVED BY
林月霞 **Alice**	張德名 **Richard**	葉任銘 **J.M.Yeh**

Acroparts Technology Co., Ltd.
1F No.16 Tze Chiang St. Yangmei, Taoyuan, Taiwan
TEL：+886-3-4881133 FAX：+886-3-4881177

ATC 碩哲科技股份有限公司

ISO9001 ACROPARTS TECHNOLOGY CO.,LTD.

13W12V Series Specification

DEVIATION REQUEST

DEVIATION REQUEST
變 更 承 認 書

DATE : JUN.01.2011

CUSTOMER: 晶睿通訊股份有限公司 CUSTOMER PT/NO. : 13W12V

TYPE DESCRIPTION: EFD-15 / POWER TRANSFORMER MF PT/NO. : SW-FD15SH-5200-10035A

According to cust. drawing required or our inprovement, herewith we submit the sample or approval sheet which we made some deviation. hope that will be accepted after your evaluation.

DEVIATION DESCRIPTIONS:

	ITEM	CUSTOMER SPEC. or CURRENT SPEC.	MF STD SPEC. or SUGGESTED SPEC.
1.	OUTSIDE TAPE	NO	POLYMIDE FILM (2.5 Turns)
2.			
3.			
4.			
5.			

THE RESASONS ARE: ☑ AUTOMATION ☐ STANDARDIZATION ☐ PROCESS CAPABILITY

STOCK DISPOSITION: ☐ USE EXHAUST ☑ REWORK ☐ SCRAP

DEVIATION AFFECTS: ☑ APPERARANCE ☐ DIMENSION ☐ CHARACTERISTICS

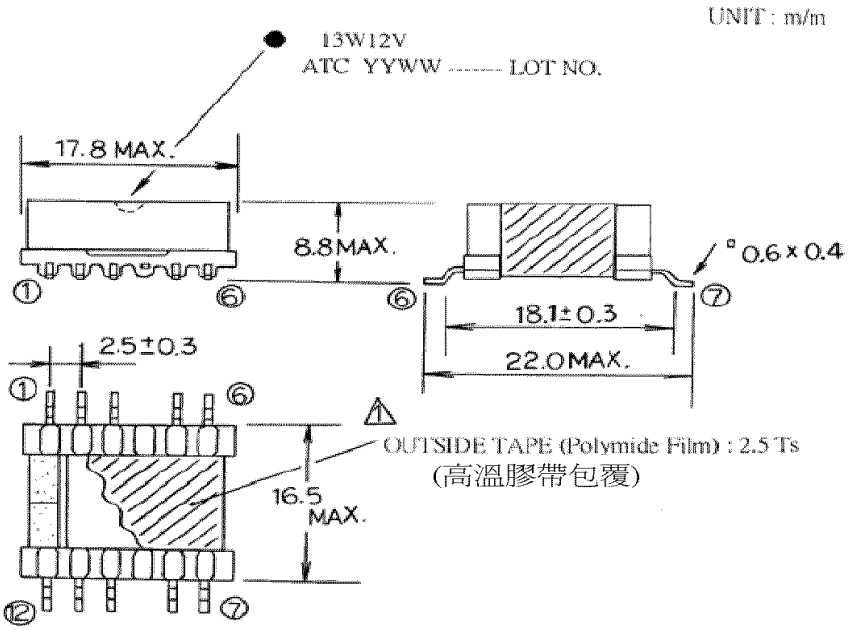
REMARKS:

1. Revision or Mark: ⚠
2. 變更原因: PCB打件設備需自動吸取零件, 插件工程改善.
3. 電氣特性 & 作業工法維持不變, 現行承認書參照！

ATC 碩哲科技股份有限公司
ISO9001 ACROPARTS TECHNOLOGY CO.,LTD.

13W12V Series Specification

6 Configuration and Dimensions:



REMARKS:
1. PIN 4,9 CUT OFF.
2. LABEL ON TOP SIDE.
3. FIXING TAPE FOR CORE: 1 mil, 2 Ts MIN.
4. LOT NO.: YY WW

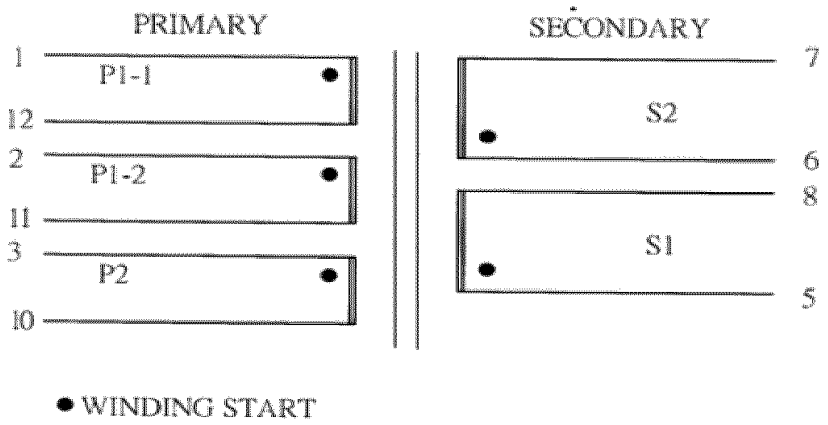
WEEK
YEAR

ATC 碩哲科技股份有限公司

ISO9001 ACROPARTS TECHNOLOGY CO.,LTD.

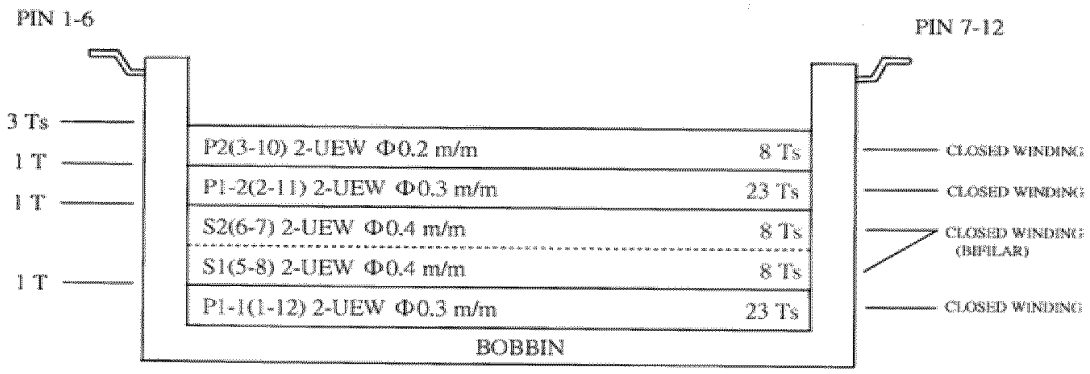
13W12V Series Specification

8 SCHEMATIC



8 WINDING CONSTRUCTION

INSULATION TAPE: 1 mil x 9.0 m/m



ATC 碩哲科技股份有限公司

ISO9001 ACROPARTS TECHNOLOGY CO.,LTD.

13W12V Series Specification

6 Electrical Characteristics：

ELECTRICAL CHARACTERISTICS				
NO.	PARAMETER	TERMINAL	SPECIFICATION	TEST INSTRUMENTS
1.	INDUCTANCE	1 ---- 12 2 ---- 11	35.0 uH ± 10%	CHEN HWA LCR METER 1062 '@ 100KHz, 0.25 Vrms. or EQU.
		1 ---- 12 2---- 11 (2 Adc)	29.0 uH MIN.	CHEN HWA LCR METER 102 '@ 1KHz, 0.25 Vrms. or EQU.
2.	LEAKAGE INDUCTANCE	1 ---- 12 2 ---- 11 Sec. Shorted	1.0 uH MAX.	CHEN HWA LCR METER 1062 '@ 100KHz, 0.25 Vrms. or EQU.
3.	DC RESISTANCE	1 ---- 12	150.0 mΩ MAX.	CHEN HWA 502 AC METER or EQU. @ 25℃
		2 ---- 11	190.0 mΩ MAX.	
		3 ---- 10	165.0 mΩ MAX.	
		5 ---- 8	36.0 mΩ MAX.	
		6 ---- 7	36.0 mΩ MAX.	
4.	VOLTAGE RATIO & POLARITY INPUT: 1- 12	2 ---- 11	9.953 Vrms ± 2.0%	CHEN HWA 310 or EQU. @ 20 kHZ, 10 Vrms
		5 ---- 8	3.391 Vrms ± 4.0%	
		6 ---- 7	3.391 Vrms ± 4.0%	
		3 ---- 10	3.403 Vrms ± 4.0%	
5.	DIELECTRIC WITHSTANDING VOLTAGE	P---- S	AC 1.0 KV, 2 mA, 1min. or AC 1.2 KV, 2 mA, 2 Sec.	CHEN HWA CWI-903 or EQU. (f= 60 Hz)
		P,S -- CORE	AC 0.5 KV, 2 mA, 1min. or AC 0.6 KV, 2 mA, 2 Sec.	
6.	INSULATION RESISTANCE	P---- S	DC 500V, 100 M OHM MIN.	CHEN HWA CWI-903 or EQU.
		P,S -- CORE		

ATC 碩哲科技股份有限公司

ISO9001 ACROPARTS TECHNOLOGY CO.,LTD.

13W12V Series Specification

6 PART MATERIAL IDENTIFICATION :

PART MATERIAL IDENTIFICATION

NO.	ITEM	MATERIAL	CLASS	UL FILE NO.	MANUFACTURER
1.	CORE	FERRITE JPP-4			A-CORE ELECTRICAL CO., LTD.
		PC40, PC44			TDK CORPORATION
		NC-2H			NICERA CERAMIC CORPORATION
		P4			ACME ELECTRONICS CORPORATION
2.	BOBBIN	PHENOLIC PM-9820, PM-9630	150℃	E41429(M)	SUMITOMO BAKELITE CO., LTD.
		LCP E4008	130℃	E54705(M)	SUMITOMO CHEMICAL CO., LTD.
3.	TAPE	POLYESTER CAT.NO. 35660Y	130℃	E50292(S)	SYMBIO INC.
		⚠ CAT.NO. KA180	200℃		
		3M NO. 1350-1 or 56 or 1298	130℃	E17385(N)	MINNESOTA MINING & MFG CO ELECTRICAL SPECIALTIES DIV
		⚠ NO. 92	180℃		
		CAT NO. CT, PZ	130℃	E165111	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO., LTD.
		⚠ CAT.NO. PF	180℃		
		CAT NO. 370S, 371F	130℃	E175868(S)	BONDTEC PACIFIC CO., LTD.
		⚠ CAT.NO. 911	200℃		
4.	WIRE	POLYURETHANE ENAMELLED COPPER DD-NYU	130℃	E84081(S)	PACIFIC ELECTRIC WIRE & CABLE CO., LTD.
		UEW-2	130℃	E174837	JUNG SHING WIRE CO., LTD.
		UEW	130℃	E152187	TA WIN INDUSTRIES(M) SDN BHD
		UEW	130℃	E223922(S)	HUNG CHENG INDUSTRY CO., LTD.
5.	SOLDER	LEAD FREE BAR Sn/Cu			THOUSAND ISLAND METAL FOIL CO., LTD. (or EQU.)
6.	VARNISH	BC-346A, BC-359	200℃	E317427	JOHN C DOLPH COMPANY.(or EQU.)
7.	LUG	TIN PLATED CP WIRE			OPTIONAL

承認書番号
Spec No. TTS- ASST00367

客戸
Customer 晶睿 殿

承 認 書
Specifications For Approval

製 品 名 Description	變壓器 Transformer
客 戸 品 名 Customer P/ N	POE13F- 12L
仕 様 名 Trade Name	STD15- 350

RoHS對應品

受領印欄
Please return one copy with your approved signature

作 成 DRAWN	検 認 CHECKED	品管検認 QC CHECKED	承 認 APPROVED
江 2013/12/03 文娟	鮑 2013/12/03 静華	佐 (正)	黄 2013/12/03 文李

AUDIX

発行日 Date: 2013年12月3日

信華科技(廈門)有限公司
AUDIX TECHNOLOGY (XIAMEN) Co.,LTD
中国廈門市集美区杏南路46号
46,XING NAN ROAD,JIMEI,XIAMEN,CHINA
TEL:(0086)0592-6216601 FAX:(0086)0592－6214837

承 認 書 Specifications	管理番号 Classified No.	TTS- ASST00367	1/3
品 名 TITLE	STD15- 350		

1、適用範囲 Scope

本承認書為變壓器 STD15- 350 適用。
This specification applies to the Transformer STD15- 350 delivery.

2、内 容 Content

①	表 紙 Surface sheet					
②	変更履歴 Revision of change	1/3				
③	電気特性表 Electrical characteristics	2/3				
④	製 品 図 Products drawing	2/3				
⑤	回流焊曲線圖 SOLDERING PROFILE	3/3				

3、使用材料 Raw material

本線圈沒有使用破壞臭氧層的物質、塩素系有機溶剤及特定臭素系難燃剤。
Neither the ozone _depleting substance、the chloric organic solvent nor the flame retardant medicine of the specific bromine system are used for this coil .

4、 其他 Note

如有發生疑義，請速与本公司聯系，進行協商解決。
If any doubt is occurred on this spec , make contact with us immediately , and take a disposition based on the agreement between each other.

版 Edition	日 期 Date	改 定 事 項 Revision	改 定 理 由 Reason
0	2013- 11- 26	制 定	-

作 成 DRAWN	検認 CHECKED	品管検認 QC CHECKED	承 認 APPROVED	制 定 日 ISSUED DATE
江 2013/12/09 文娟	鮑 2013/12/09 静華	佐 (西)	黄 2013/12/09 文李	2013- 11- 26

AUDIX

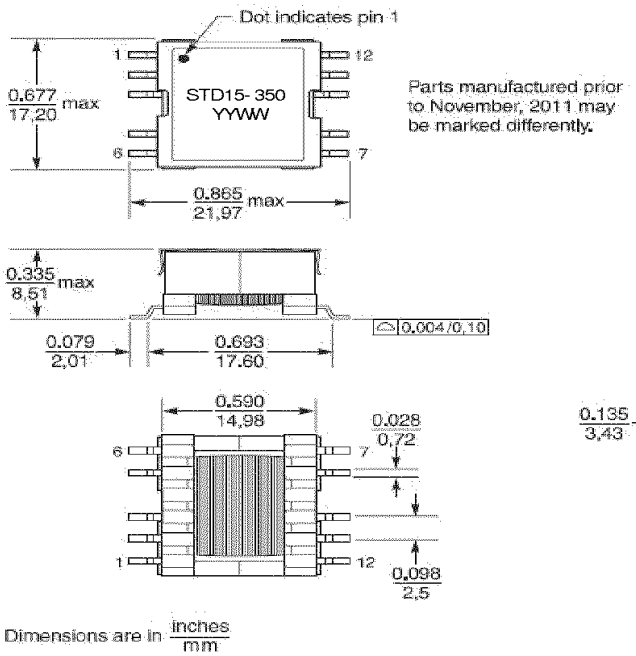
承 認 書 Specifications	分類番号 Classified No.	TTS- ASST00367	2/3
品 名 TITLE	STD15- 350		

電気特性 Electric Characterisrics

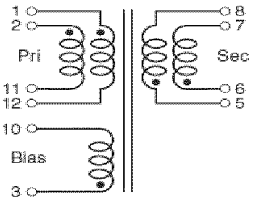
Part number	Power	Inductance at 0 A ±10%uH	Inductance at Ipk min(uH)	DCR max(Ω) pri	DCR max(Ω) sec	DCR max(Ω) bias	Leakage inductance max(uH)	Turns ratio pri : sec	Turns ratio pri : bias	Ipk (A)	Output (REF)
STD15- 350	13	35	31.5	0.095	0.017	0.150	0.6	1 : 0.35	1 : 0.35	2.0	12V, 1.1A

1. 1500Vrms.one minute isolation primary and bias to secondary.
2. Inductance is for the primary, measured at 250kHz, 0.3Vrms.
3. Peak primary current drawn at minimum input voltage.
4. DCR for the primary and for the secondary are with the windings connected in parallel.
5. Leakage inductance is for the primary windings with the secondary windings shorted.
6. Turns ratios are with the primary the secondary windings connected in parallel.
7. Output of the secondary is with the windings connected in parallel. Bias winding output is 12V, 20mA.
8. Electrical specifications at 25℃.
9. Ambient temperature - 40℃ to + 125℃.
10. Storage temperature - 40℃ to + 125℃.
11. Packaging - 40℃ to + 80℃.

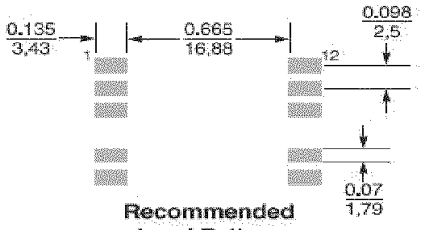
外形、寸法 Externals and Dimensions



Schematics



Primary windings and secondary windings to be connected in parallel on PC board.

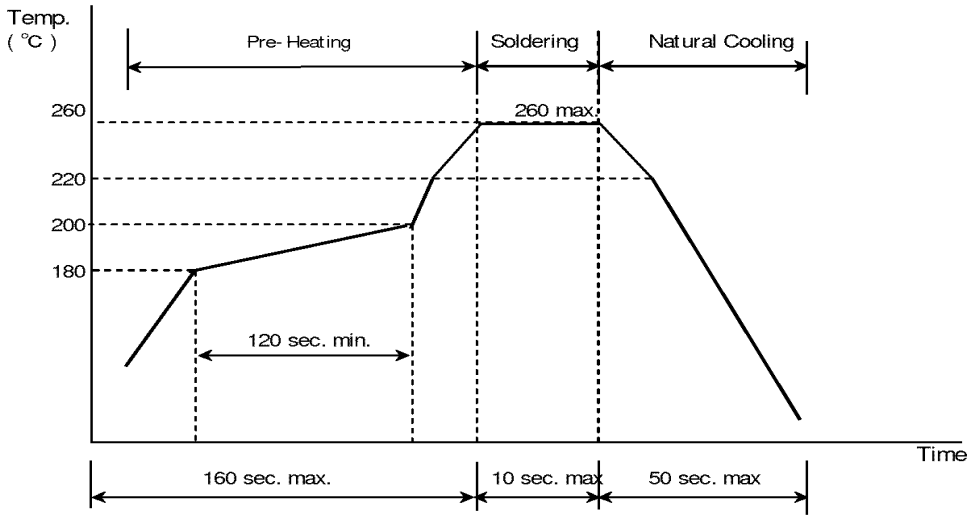


Recommended Land Pattern

承 認 書 Specifications	管理番号 Classified No.	TTS- ASST00367	4/3
品 名	TITLE	STD15- 350	

SOLDERING PROFILE

1) Re- flow Soldering profile



2) Manual soldering

Solder iron temperature : 380±5℃

Soldering time : 3±1sec.

TO: _____ Issued : _____

1. Description : Transformer
2. Lot No. :
3. Trade Name : STD15-350
4. Quantity :

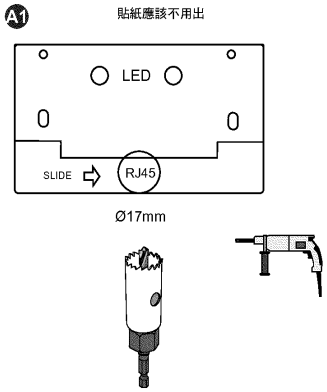
MATERIAL LIST

No.	Item	Trade name	Material	File No.	Temp Class	Manufacture
①	Core	P4 EFD15	Ferrite	----	----	ACME Electronics Material Co., Ltd.
		DMR40 EPC15	Ferrite	----	----	Hengdian Group Dmegc Magnetics Co., Ltd.
		TP4 EFD15	Ferrite	----	----	TDG Holding Co., Ltd.
②	Bobbin	EFD15	Phenolic	E41429 UL94V-0	150 ℃	Sumitomo Bakelite Co., Ltd.
③	Magnet Wire	UEW	Polyurethane Copper Wire	E174837	130 ℃	Jung Shing Wire Co., Ltd.
				E197768	130 ℃	Ta YA Electric Wire Factory
				E85640	130 ℃	TAI-1 Copper Co., Ltd.
				E221719	155 ℃	Zhejiang Hongbo Electric Line & Wire Co., Ltd.
④	Insulation Tape	201	Polyimide film	E229667	180 ℃	Shanghai Jinzhang Insulating Material Co., Ltd.
		CT	Polyester	E165111	130 ℃	Jingjiang Yahua Pressure Sensitive Glue Co., Ltd.
⑤	Holder	EFD15	Stainless Steel	----	----	Optional
⑥	Solder	Sn95-1Ag-4CU	Lead-Free	----	----	ALPHA Metal Co., Ltd.
		SN100C3	Lead-Free	----	----	AIM Solder Corporation
⑦	Adhesive		Epoxy	----	----	Optional

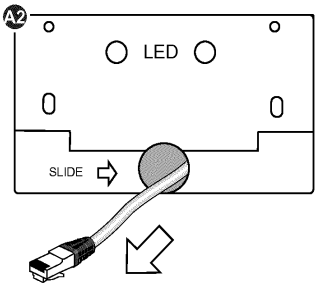
We certify that each material of above parts is properly employed such as above table.

AUDIX TECHNOLOGY (XIAMEN) Co.,LTD.

A1



A2



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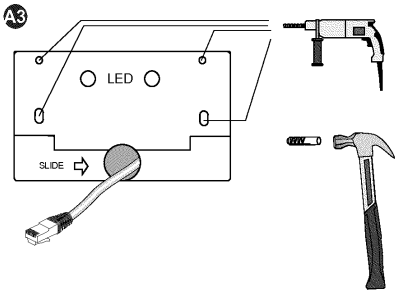

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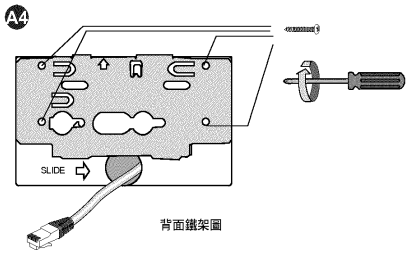

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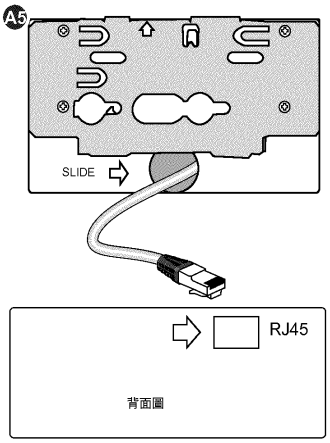

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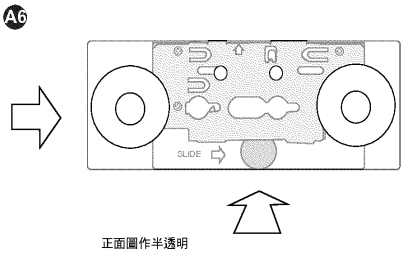

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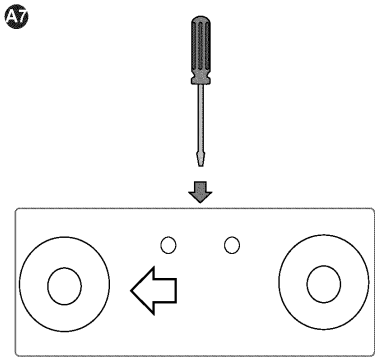

Test Record No. 1

-- The manufacturer submitted representative production sample of Stereo Camera. Model SC8131.

-- Only the test checked in "List of Tests" pages were deemed necessary.

-- All tests were conducted under TDTDP(CAP/EA) by Prodigy Technology Consultant Co., Ltd; Located on 1F., No. 181 SEC 2 WUNHUA 1ST RD, LINKOU DISTRICT, NEW TAIPEI 224, TAIWAN.

-- Test results reported relate only to the items tested.

The following tests were conducted:

Test	Testing Location/Comments
End Product Reference Page	
General Guidelines	
Input: Single-Phase (1.6.2)	
SELV Reliability Test Including Hazardous Voltage Measurements (2.2.2, 2.2.3, 2.2.4, Part 22 6.1)	
Limited Power Source Measurements (2.5)	
Steady Force (4.2.1 - 4.2.4)	(for reference)
Impact (4.2.5, 4.2.1, Part 22 10.2)	(for reference)
Stress Relief (4.2.7, 4.2.1)	
Loading - Wall and Ceiling Mounted Equipment (4.2.10)	
Heating (4.5.1, 1.4.12, 1.4.13)	
Component Failure (5.3.1, 5.3.4, 5.3.7)	
Overload of Operator Accessible Connector (5.3.7)	

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following supplements are provided as a part of this Test Record. NOTE: These supplements are only available to the Applicant via the CDA system.

Type	Supplement Id	Description
Datasheet	2-01	Datasheet
Attachment	2-02	CRD