

Verification Report Page 1 of 49 No. SHAEC1708219901 Date: 31 May 2017

Zhejiang Uniview Technologies Co., Ltd.

1-3/F Area A and 2/F Area B, Building 2; 1-11/F South Tower, Building 10, 88 Jiangling Road, Xixing Town, Binjiang District, Hangzhou City

IP Camera Sample Name:

SGS Job No.: SP17-014538 - SH

Tested Basic Model No.: IPC3632ER3-DPZ28-C

Client Ref. Information: IPC3632ERa-xxxxxxxx-yyyyyyyy-zzz, IPC3632SRa-xxxxxxxx-yyyyyyyy-zzz,

IPC3634ERa-xxxxxxxx-yyyyyyyy-zzz, IPC3634SRa-xxxxxxxx-yyyyyyyy-zzz

Date of Sample Received: 26 Apr 2017

Verification Period: 26 Apr 2017 - 31 May 2017

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method: Please refer to next page(s). Verification Result: Please refer to next page(s).

Verification Conclusion: Based on the verification results of the submitted samples, the results of Lead,

> Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) do not exceed the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Note: The test results are related only to the tested items. The report shall not be

reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Helen Liu

Approved Signatory

Hele Lin



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Verification Method:

1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.

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- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
- (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
- (2) Wet chemical test method
- a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
- b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES
- c. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES
- d. With reference to IEC 62321-7-1:2015 & IEC 62321:2008, determination of Hexavalent chromium by Colorimetric method using UV-Vis.
- e. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White plastic (sheath)		Cd	BL		Comply	·
	(power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
2	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White plastic (outer		Cd	BL		Comply	,
	jacket) (power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
3	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Blue plastic (inner jacket)		Cd	BL		Comply	·
	(power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
4	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Red plastic (inner jacket)		Cd	BL		Comply	·
	(power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
5	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (inner jacket)		Cd	BL		Comply	·
	(power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
6	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Orange plastic (inner		Cd	BL		Comply	
	jacket) (power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
7	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Green plastic (inner		Cd	BL		Comply	'
	jacket) (power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
8	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Brown plastic (inner		Cd	BL		Comply	-
	jacket) (power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
9	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Orange/white plastic		Cd	BL		Comply	207.0. 2017
	(inner jacket) (power		Hg	BL		Comply	
	cord)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
10	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Brown/white plastic (inner		Cd	BL		Comply	20,10,2011
	jacket) (power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	

PBBs

PBDEs

Pb

Cd

Hg

Cr(VI)▼

PBBs

PBDEs

Pb

Cd

Hg Cr(VI)▼

PBBs

PBDEs

BL

ΒL

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12

IPC3632FR3-DPZ28-C-

IPC3632ER3-DPZ28-C-

Blue/white plastic (inner jacket) (power cord)

jacket) (power cord)

Green/white plastic (inner

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Comply

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
13	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White plastic (shell)		Cd	BL		Comply	
	(plug1) (power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
14	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (contact		Cd	BL		Comply	
	piece) (plug1) (power		Hg	BL		Comply	
	cord)		Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
15	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (bracket)		Cd	BL		Comply	
	(plug1) (power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
16	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (hoop)		Cd	BL		Comply	
	(plug1) (power cord)		Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
17	IPC3632ER3-DPZ28-C-		Pb	OL	28890▲	Comply	26 Apr 2017
	Silvery metal (pin) (plug1)		Cd	BL		Comply	
	(power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
18	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White plastic (bracket)		Cd	BL		Comply	2071012017
	(plug2) (power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
19	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Golden metal (pin) (plug2)		Cd	BL		Comply	
	(power cord)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
20	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White coating (shell)		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
21	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (substrate)		Cd	BL		Comply	, '
	(shell)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
22	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (screw)		Cd	BL		Comply	·
	(shell)		Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
23	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White rubber (sealed ring)		Cd	BL		Comply	'
	(shell)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
24	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White FPC (body)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
25	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black rubber (sealed		Cd	BL		Comply	
	washer)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
26	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black metal (screw)		Cd	BL		Comply	20710. 2017
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
27	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silver-blue metal (screw)		Cd	BL		Comply	·
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
28	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (ornament)		Cd	BL		Comply	· · ·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
29	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black foam (sealed ring)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
30	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Transparent glass (transmitting board)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
31	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black cloth (adhesive		Cd	BL		Comply	
	tape) (internal connecting		Hg	BL		Comply	
	line)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
32	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (jacket)		Cd	BL		Comply	·
	(internal connecting line)		Hg	BL		Comply	

Cr(VI)▼

PBBs

PBDEs



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
33	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Blue plastic (jacket)		Cd	BL		Comply	
	(internal connecting line)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
34	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Red plastic (jacket)		Cd	BL		Comply	·
(internal connecting line)		Hg	BL		Comply		
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
35	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Orange plastic (jacket)		Cd	BL		Comply	'
	(internal connecting line)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
36	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
Green plastic (jacket) (internal connecting line)			Cd	BL		Comply	
		Hg	BL		Comply		
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
37	IPC3632ER3-DPZ28-C- White plastic (jacket)		Pb Cd	BL BL		Comply Comply	26 Apr 2017
(internal connecting line)		Hg Cr(VI) ▼	BL BL		Comply Comply		
			PBBs PBDEs	BL BL		Comply Comply	
38	IPC3632ER3-DPZ28-C- Yellow plastic (jacket) (internal connecting line)		Pb Cd Hg	BL BL BL	 	Comply Comply Comply	26 Apr 2017
			Cr(VI)▼ PBBs PBDEs	BL BL BL	 	Comply Comply Comply	
39	IPC3632ER3-DPZ28-C- Brown plastic (jacket) (internal connecting line)		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL	 	Comply Comply Comply Comply Comply	26 Apr 2017
40	IPC3632ER3-DPZ28-C- Silvery metal (screw) (control block module)		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL 	 	Comply Comply Comply	26 Apr 2017



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
41	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (fixed rod)		Cd	BL		Comply	2071012017
	(control block module)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
42	42 IPC3632ER3-DPZ28-C- Silvery metal (nut) (control block module)		Pb	BL		Comply	26 Apr 2017
			Cd	BL		Comply	2071012017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
43	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (clapboard)		Cd	BL		Comply	
	(control block module)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
s	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (gasket)		Cd	BL		Comply	
	(control block module)		Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
45	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (block)		Cd	BL		Comply	
	(control block module)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
46	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black coating (washer)		Cd	BL		Comply	
	(control block module)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
47	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Golden metal (substrate)		Cd	BL		Comply	
	(washer) (control block		Hg	BL		Comply	
	module)		Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
48	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (shaft dowel) (control block module)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
49	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (gear)		Cd	BL		Comply	·
	(control block module)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
50	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (packing		Cd	BL		Comply	
block) (control block module)		Hg	BL		Comply		
		Cr(VI)▼	BL		Comply		
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
51	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (shell)		Cd	BL		Comply	
	(control block module)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
52	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
Black plastic (inner ring) (control block module)			Cd	BL		Comply	
		Hg	BL		Comply		
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
53	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Golden metal (gear		Cd	BL		Comply	· ·
	sheath) (motor) (control		Hg	BL		Comply	
	block module)		Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
54	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Copper-colored metal (bushing) (motor) (control block module)		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
55	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (end cover)		Cd	BL		Comply	·
	(motor) (control block		Hg	BL		Comply	
	module)		Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
56	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
Silvery metal (shaft) (motor) (control block		Cd	BL		Comply		
		Hg	BL		Comply		
	module)		Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
57	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (shell)		Cd	BL		Comply	
	(motor) (control block module)		Hg	BL		Comply	
	module)		Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
58	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Blue plastic (shell)		Cd	BL		Comply	
	(electrolytic capacitor)		Hg	BL		Comply	
	(PCB1)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
59	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (shell)		Cd	BL		Comply	20 Apr 2017
	(electrolytic capacitor)		Hg	BL		Comply	
	(PCB1)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
60	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (bracket)		Cd	BL		Comply	2071pi 2017
	(transformer) (PCB1)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
61	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Yellow plastic (adhesive		Cd	BL		Comply	·
	tape) (transformer)		Hg	BL		Comply	
	(PCB1)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
62	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (shell)		Cd	BL		Comply	,
	(inductor) (PCB1)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
63	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black diode (body)		Cd	BL		Comply	,
	(PCB1)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
64	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black IC1 (body) (PCB1)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
65	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black IC2 (body) (PCB1)		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
66	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black IC3 (body) (PCB1)		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
67	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black IC4 (body) (PCB1)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
68	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (strip)		Cd	BL		Comply	·
	(socket) (PCB1)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
69	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black IC5 (body) (PCB1)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
70	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black IC6 (body) (PCB1)		Cd	BL		Comply	20710. 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
71	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (soldering		Cd	BL		Comply	'
	tin) (PCB1)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
72	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black PCB1 (body)		Cd	BL		Comply	- -
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
73	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black PCB2 (body)		Cd	BL		Comply	=0 / 40 / =0 / /
	(PCB2)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
74	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black foam (packing		Cd	BL		Comply	2071012017
	block) (PCB3)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
75	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (shell)		Cd	BL		Comply	207012017
	(socket) (PCB3)		Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
76	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (spring)		Cd	BL		Comply	207151 2017
	(socket) (PCB3)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
77	IPC3632ER3-DPZ28-C- Black plastic (bracket)		Pb Cd	BL BL		Comply Comply	26 Apr 2017
	(socket) (PCB3)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
78	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Red rubber (button)		Cd	BL		Comply	·
	(touch switch) (PCB3)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
79	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (shell) (touch		Cd	BL		Comply	
	switch) (PCB3)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
80	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Silvery metal (top cover)		Cd	BL		Comply	-
	(touch switch) (PCB3)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
81	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black PCB3 (body)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
82	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black plastic (bracket)		Cd	BL		Comply	·
	(LED) (PCB4)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
83	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Black PCB4 (body)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
84	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	Beige plastic (expansion		Cd	BL		Comply	
	valve) (expansion plug)		Hg	BL		Comply	
	(accessory)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
85	IPC3632ER3-DPZ28-C- Silvery metal (lock screw)		Pb Cd	BL BL		Comply Comply	26 Apr 2017
	(accessory)		Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
86	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White plastic (lock screw)		Cd	BL		Comply	20710. 2017
	(accessory)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
87	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White plastic (nut) (lock		Cd	BL		Comply	·
	screw) (accessory)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
88	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White rubber (sealed		Cd	BL		Comply	- -
	stopper) (lock screw)		Hg	BL		Comply	
	(accessory)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
89	IPC3632ER3-DPZ28-C-		Pb	BL		Comply	26 Apr 2017
	White rubber (sealed ring)		Cd	BL		Comply	20,40, 20,1
	(lock screw) (accessory)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
	1		ĺ	1			I



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Remark:

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
 - (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cd	BL ≤(70-3σ)< X <(130+3σ)≤OL	BL ≤(70-3σ)< X <(130+3σ)≤OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X<(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X<(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X		BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) (a) mg/kg = 0.0001%, MDL = Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, = Without BOM.
 - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg
Unit	mg/kg	mg/kg	mg/kg
MDL	10	10	10

The MDL for single compound of PBBs and PBDEs is 100 mg/kg, MDL of Cr(VI) for polymer and composite sample is 10 mg/kg, MDL of Cr(VI) for metal sample is 0.10 µg/cm².



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- (c) ▼ =Metal sample
 - a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive
 - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:1258637, 25>



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(d)▲=According to the declaration from the client, Lead (Pb) in No.17 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 6(c)|: Copper alloy containing up to 4 % lead by weight.

(3) According to the declaration from applicant, the materials of Model "IPC3632ER3-DPZ28-C are the same as those in Model "IPC3632ERa-xxxxxxxx-yyyyyyyy-zzz, IPC3632SRa-xxxxxxxx-yyyyyyyy-zzz, IPC3634ERa-xxxxxxxx-yyyyyyyy-zzz, IPC3634SRa-xxxxxxxx-yyyyyyyy-zzz" and its results for support the results of Model "IPC3632ERa-xxxxxxxx-yyyyyyy-zzz, IPC3632SRa-xxxxxxxx-yyyyyyyy-zzz, IPC3634ERa-xxxxxxxx-yyyyyyyy-zzz, IPC3634SRa-xxxxxxxx-yyyyyyyy-zzz". The applicant will take the responsibility of all discrepancy and risk.



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Sample photo:







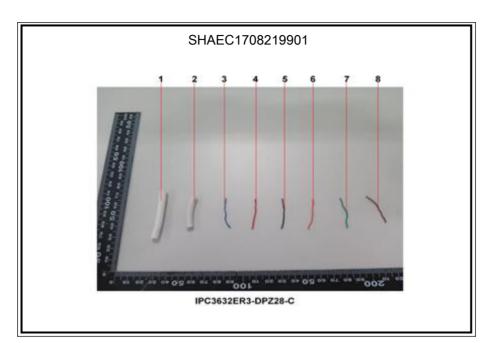
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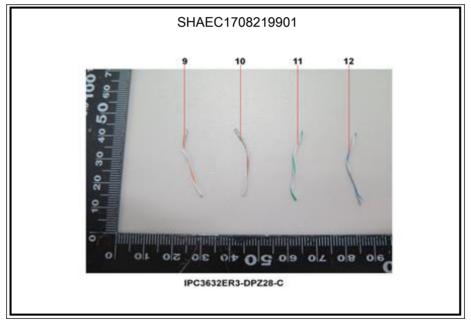
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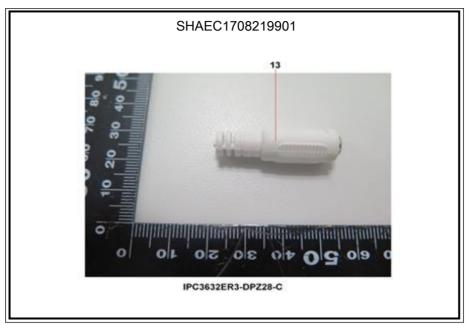
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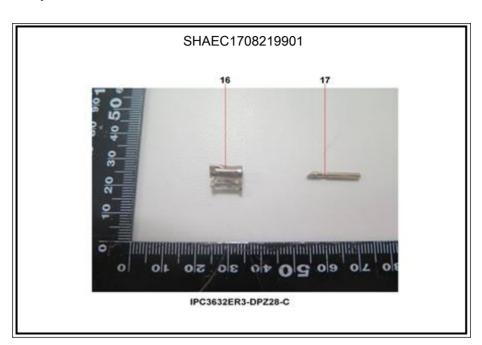
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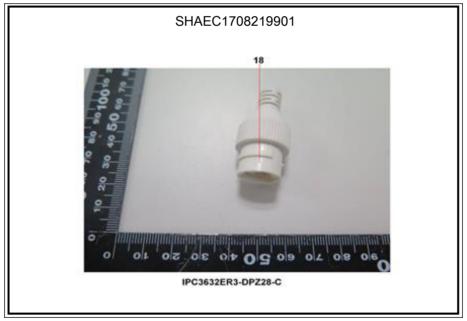
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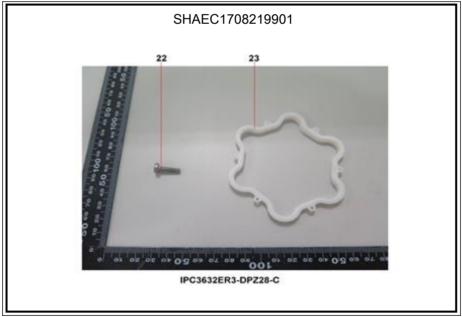
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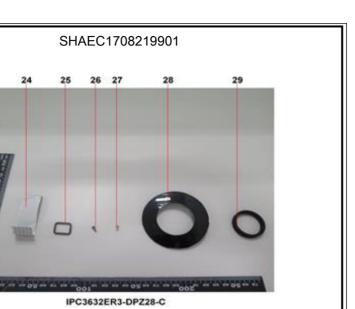
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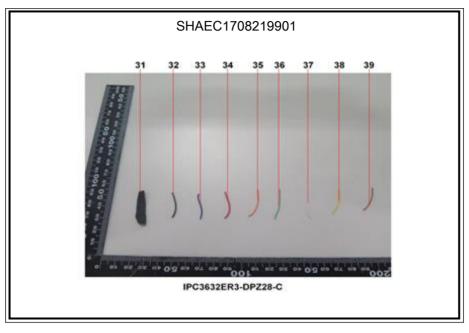
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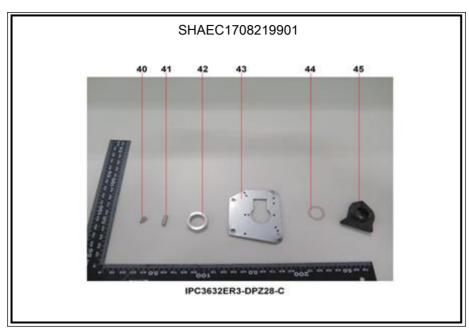
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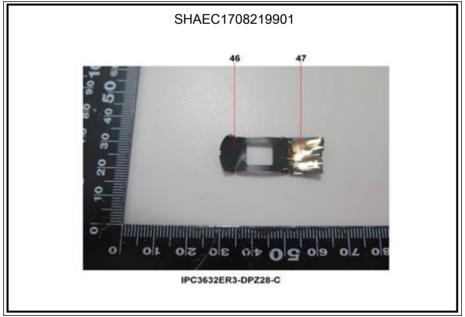
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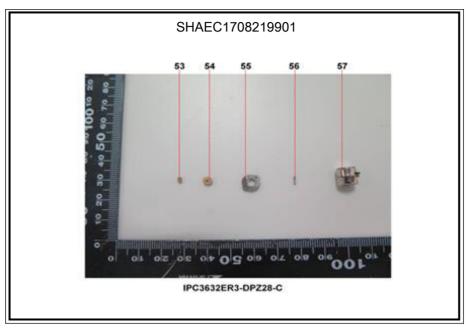
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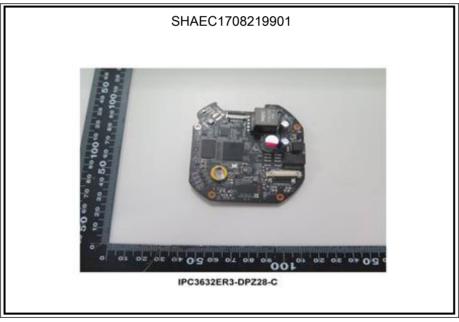
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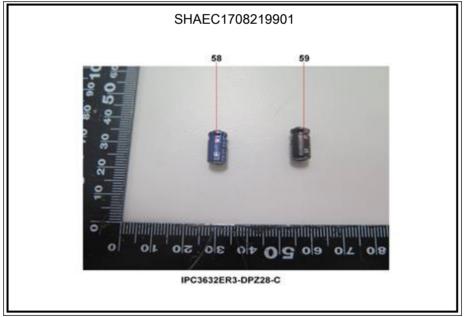
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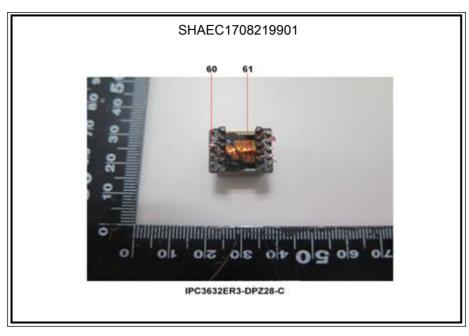
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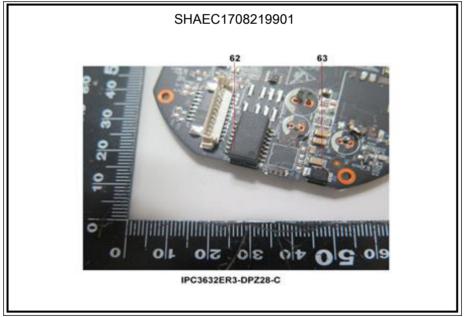
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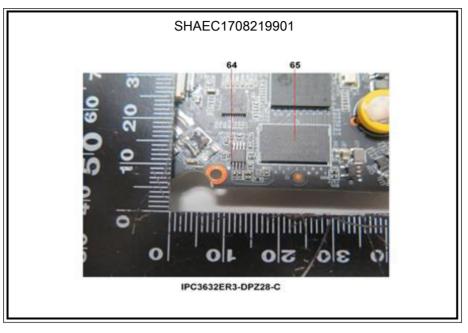
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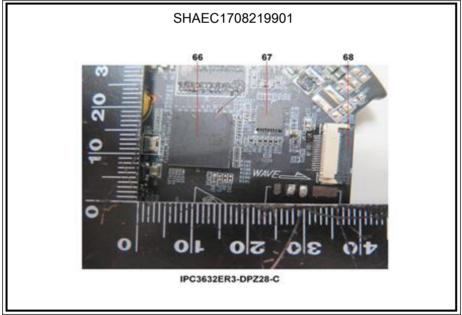
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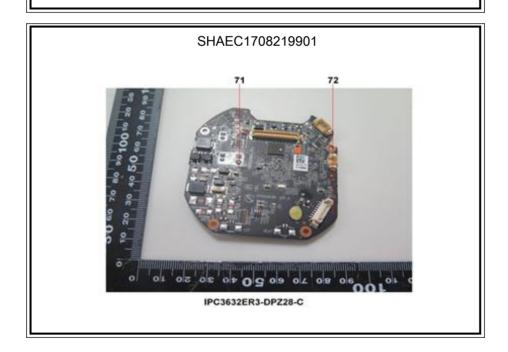
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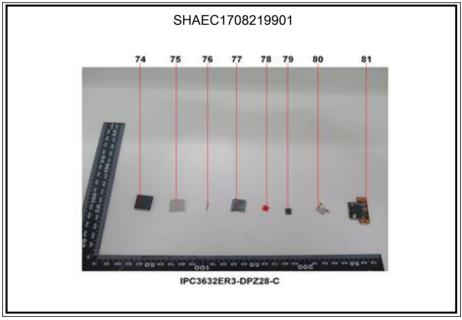
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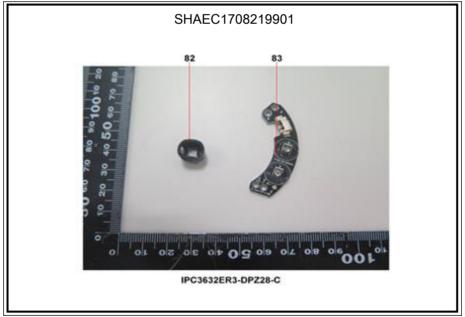
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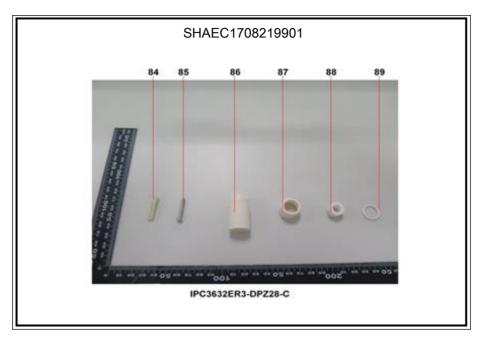
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