

Verification Report No. NGBEC1601270301 Date: 23 May 2016 Page 1 of 106

NINGBO SNAPPY OPTOELECTRONICS CO.,LTD.

NO.56, KEDA ROAD NATIONAL HI-TECH PARK OF NINGBO ZHEJIANG

Sample Name: LED power supply SGS Job No.: NP16-001072 - NB

Tested Basic Model No.: SNP150-12VL

SNP4-500ILP, SNP15-700IFP, SNP50-12VF(UE), SP75-1400IL(UE), 14-320D Tested Extended Model

IP44,SNP15-500ILW,SNP50-12VF-1 SPF40-12A ,F15-350,SNP15-700IL(UL)-S, No.:

SNP50-24VF,

SPF60-15A,HAL30-12WR,SNP18-350ILD2(UL),SNP60-12VF,SPF90-12A,SNP10-450I

SNP20-12VF,SNP6-12VF,SS21-350IL (UE),SNP12-24VF,SNP20-12VL,

SNP6-700IF(UE), SS30-700IL(UE), SNP12-350IF(UL)-S, SNP24-12VLW, SNP6-700IFP, SNP12-500ILW, SNP30-12VF(UL)-S, SNP75-12VF-1, SNP15-12VF, SNP30-12VF-1, SNP8-12VL-2,SNP15-12VF-1,SNP30-12VFP,SNP8-24VL-1,SNP15-12VL,SNP30-24V

L-1,SP24-350ILT,SP36-700ILT,SNP40-1050IF,SP30-1050IL(UE),SNP40-12VF,

Client Ref. Information: SEE ATTACHMENT

Date of Sample Received: 07 Apr 2016

Verification Period: 07 Apr 2016 - 20 May 2016

Verification Requested: With reference to RoHS Directive 2011/65/EU recasting 2002/95/EC.

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 sample(s), the results of Lead,

> Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU recasting 2002/95/EC.

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.



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Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Iris Xiao

Approved Signatory



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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	SNP150-12VL-White		Pb	BL		Comply	07 Apr 2016
	plastic shell		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
2	SNP150-12VL-Silver-blue		Pb	BL		Comply	07 Apr 2016
	metal screw		Cd	BL		Comply	0.7 p. 20.0
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
3	SNP150-12VL-Black		Pb	BL		Comply	07 Apr 2016
	plastic piece		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
4	SNP150-12VL-Silvery		Pb	BL		Comply	07 Apr 2016
	metal shell		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)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
5	SNP150-12VL-Yellow		Pb	BL		Comply	07 Apr 2016
	plastic adhesive tape		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
6	SNP150-12VL-Silvery		Pb	BL		Comply	07 Apr 2016
	metal piece		Cd	BL		Comply	07 7tpl 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
7	SNP150-12VL-Black		Pb	BL		Comply	07 Apr 2016
	plastic jacket(capacitor)		Cd	BL		Comply	
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
8	SNP150-12VL-Blue		Pb	BL		Comply	07 Apr 2016
	capacitor body(PCB)		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
9	SNP150-12VL-Gray		Pb	BL		Comply	07 Apr 2016
	plastic shell(capacitor)		Cd	BL		Comply	
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
10	SNP150-12VL-Brown		Pb	BL		Comply	07 Apr 2016
	plastic jacket(capacitor)		Cd	BL		Comply	
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
11	SNP150-12VL-Brown		Pb	BL		Comply	07 Apr 2016
	plastic shell(capacitor)		Cd	BL		Comply	
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
12	SNP150-12VL-Yellow		Pb	BL		Comply	07 Apr 2016
	plastic shell(capacitor)		Cd	BL		Comply	·
	(PCB)		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
13	SNP150-12VL-Black IC		Pb	IN	12124▲	Comply	07 Apr 2016
	body(PCB)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
14	SNP150-12VL-Black		Pb	BL		Comply	07 Apr 2016
	rectifier bridge		Cd	BL		Comply	·
	body(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
15	SNP150-12VL-Black big		Pb	BL		Comply	07 Apr 2016
	IC body(PCB)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
16	SNP150-12VL-Green		Pb	BL		Comply	07 Apr 2016
	PCB 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
17 -C	SNP150-12VL-Silvery		Pb	BL		Comply	07 Apr 2016
	metal soldering tin(PCB)		Cd	BL		Comply	,
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
18	SNP150-12VL-Black		Pb	BL		Comply	07 Apr 2016
	audion body(PCB)		Cd	BL		Comply	07 7 (01 20 10
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
19	SNP150-12VL-Silvery		Pb	BL		Comply	07 Apr 2016
	metal pin(radiator fin)		Cd	BL		Comply	'
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
20	SNP150-12VL-Black		Pb	BL		Comply	07 Apr 2016
	rectifier bridge		Cd	BL		Comply	
	body(radiator fin)(PCB)		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
21	SNP150-12VL-Black		Pb	BL		Comply	07 Apr 2016
	audion body(radiator fin)		Cd	BL		Comply	
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
22	SNP150-12VL-Black		Pb	BL		Comply	07 Apr 2016
	ferrite ring(radiator fin)		Cd	BL		Comply	
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
23	SNP150-12VL-Silvery		Pb	BL		Comply	07 Apr 2016
	metal nut(radiator fin)		Cd	BL		Comply	·
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
24	SNP150-12VL-Silvery		Pb	BL		Comply	07 Apr 2016
	metal screw(radiator fin)		Cd	BL		Comply	
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				



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25	SNP150-12VL-Black		Pb	BL		Comply	07 Apr 2016
	plastic		Cd	BL		Comply	·
	bracket(transformer)		Hg	BL		Comply	
	(PCB)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
26	SNP150-12VL-Copper-col		Pb	BL		Comply	07 Apr 2016
-	ored metal		Cd	BL		Comply	07 7tpl 2010
	piece(transformer)(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
27	SNP150-12VL-Black solid		Pb	BL		Comply	07 Apr 2016
	adhesive(inductor)(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
28	SNP150-12VL-Green		Pb	BL		Comply	07 Apr 2016
	coating(inductor)(PCB)		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	SNP150-12VL-Yellow		Pb	BL		Comply	07 Apr 2016
	coating(inductor)(PCB)		Cd	BL		Comply	, r
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
30	SNP150-12VL-Black		Pb	BL		Comply	07 Apr 2016
	plastic sheath(inductor)		Cd	BL		Comply	07 7tpl 2010
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
31	SNP150-12VL-White PCB		Pb	BL		Comply	07 Apr 2016
	body		Cd	BL		Comply	,
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
32	SNP150-12VL-White		Pb	BL		Comply	07 Apr 2016
	plastic jacket(fuse)(PCB)		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
33	SNP150-12VL-White fuse		Pb	BL		Comply	07 Apr 2016
	body(PCB)		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
34	SNP150-12VL-Silvery		Pb	BL		Comply	07 Apr 2016
	metal shell(fuse)(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
35	SNP150-12VL-Green		Pb	BL		Comply	07 Apr 2016
	plastic shell(connection		Cd	BL		Comply	
	line)(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
36	SNP150-12VL-Silvery		Pb	OL	28507▲	Comply	07 Apr 2016
	metal lump(connection		Cd	BL		Comply	·
	line)(PCB)		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
37	SNP150-12VL-Silvery		Pb	BL		Comply	07 Apr 2016
	metal piece(connection		Cd	OL	ND	Comply	·
	line)(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
38	SNP150-12VL-Silvery		Pb	BL		Comply	07 Apr 2016
	metal screw(connection		Cd	BL		Comply	077,012010
	line)(PCB)		Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
39	SNP4-500ILP-Black solid		Pb	BL		Comply	07 Apr 2016
	adhesive		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
40	SNP4-500ILP-Black		Pb	BL		Comply	07 Apr 2016
	rectifier bridge		Cd	BL		Comply	·
	body(PCB)		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
41	SNP4-500ILP-Black diode		Pb	BL		Comply	07 Apr 2016
	body(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
42	SNP4-500ILP-Black		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)(PCB)		Cd	BL		Comply	01 Apr 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
43	SNP4-500ILP-Yellow		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)(PCB)		Cd	BL		Comply	07 7 pr 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
44	SNP4-500ILP-Blue plastic		Pb	BL		Comply	07 Apr 2016
	jacket(capacitor)(PCB)		Cd	BL		Comply	51 7 p. 2010
			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
45	SNP4-500ILP-Black		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
46	SNP4-500ILP-Red plastic		Pb	BL		Comply	07 Apr 2016
	jacket(wire)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
47	SNP4-500ILP-Transparen		Pb	BL		Comply	07 Apr 2016
	t plastic sheath(wire)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
48	SNP4-500ILP-Brown		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		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
49	SNP4-500ILP-Blue plastic		Pb	BL		Comply	07 Apr 2016
	jacket(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
50	SNP40-12VF-Orange		Pb	BL		Comply	07 Apr 2016
	plastic shell		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
51 -C	SNP40-12VF-Silvery		Pb	BL		Comply	07 Apr 2016
	metal soldering tin(PCB)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
52	SNP40-12VF-Green PCB		Pb	BL		Comply	07 Apr 2016
	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
53	SNP40-12VF-Brown		Pb	BL		Comply	07 Apr 2016
	plastic shell(fuse)(PCB)		Cd	BL		Comply	, r
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
54	SNP40-12VF-Black		Pb	BL		Comply	07 Apr 2016
	plastic base(inductor)		Cd	BL		Comply	07 7 pr 2010
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
55	SNP40-12VF-Copper-colo		Pb	BL		Comply	07 Apr 2016
	red metal rivet(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
56	SNP40-12VF-Silvery		Pb	BL		Comply	07 Apr 2016
	metal radiator fin(PCB)		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)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
57	SNP40-12VF-Gray plastic		Pb	BL		Comply	07 Apr 2016
	jacket(capacitor)(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
58	SNP40-12VF-Black diode		Pb	BL		Comply	07 Apr 2016
	body(PCB)		Cd	BL		Comply	0.7 p. 20.0
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
59	SNP40-12VF-Black		Pb	BL		Comply	07 Apr 2016
	rectifier bridge		Cd	BL		Comply	
	body(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
60	SNP40-12VF-Yellow		Pb	BL		Comply	07 Apr 2016
	plastic jacket(capacitor)		Cd	BL		Comply	, 
	(PCB)		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
61	SNP50-24VF-Black diode body(PCB)		Pb	BL		Comply	07 Apr 2016
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
62	SNP50-24VF-Black		Pb	BL		Comply	07 Apr 2016
	rectifier bridge		Cd	BL		Comply	07 Apr 2010
	body(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
63 -C	SNP50-12VF(UE)-Silvery		Pb	BL		Comply	07 Apr 2016
	metal soldering tin(PCB)		Cd	BL		Comply	O. 7 (p. 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
64	SNP50-12VF(UE)-Black		Pb	BL		Comply	07 Apr 2016
	diode body(PCB)		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
65	SNP50-12VF(UE)-Green		Pb	BL		Comply	07 Apr 2016
	PCB body		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
66	SNP60-12VF-Black		Pb	BL		Comply	07 Apr 2016
	plastic		Cd	BL		Comply	
	bracket(transformer)		Hg	BL		Comply	
	(PCB)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
67	SNP60-12VF-Orange		Pb	BL		Comply	07 Apr 2016
	plastic jacket(capacitor)		Cd	BL		Comply	·
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
68	SNP50-12VF-1-Green		Pb	BL		Comply	07 Apr 2016
	plastic jacket(capacitor)		Cd	BL		Comply	'
	(PCB)		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	SNP30-12VF(UL)-S-Copp		Pb	BL		Comply	07 Apr 2016
	er-colored metal radiator		Cd	BL		Comply	·
	fin(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
70	SNP30-12VF(UL)-S-Black		Pb	BL		Comply	07 Apr 2016
	audion body(PCB)		Cd	BL		Comply	C
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
71	SNP30-12VF(UL)-S-Black		Pb	BL		Comply	07 Apr 2016
	rectifier bridge		Cd	BL		Comply	,
	body(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
72	SNP30-24VL-1-White		Pb	BL		Comply	07 Apr 2016
	plastic 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)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
73	SNP30-24VL-1-Beige		Pb	BL		Comply	07 Apr 2016
	plastic		Cd	BL		Comply	·
	bracket(transformer)		Hg	BL		Comply	
	(PCB)		Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
74 -C	SNP30-24VL-1-Silvery		Pb	BL		Comply	07 Apr 2016
	metal soldering tin(PCB)		Cd	BL		Comply	0.7 p. 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
75	SNP30-24VL-1-Green		Pb	BL		Comply	07 Apr 2016
	PCB body		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
76	SNP30-12VF-1-Blue		Pb	BL		Comply	07 Apr 2016
	plastic shell(connection		Cd	BL		Comply	,
	line)(PCB)		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
77	SNP30-12VF-1-Dark-blue		Pb	BL		Comply	07 Apr 2016
	plastic jacket(capacitor)		Cd	BL		Comply	·
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
78 -C	SNP30-12VFP-White		Pb	BL		Comply	07 Apr 2016
	plastic lump(wire)		Cd	BL		Comply	07 7 pt 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
79	SNP30-12VFP-White		Pb	BL		Comply	07 Apr 2016
	plastic sheath(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
80	SNP30-12VFP-Brown		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		Cd	BL		Comply	, i
			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
81	SNP30-12VFP-Blue		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
82	SNP40-1050IF-Brown		Pb	BL		Comply	07 Apr 2016
	plastic shell(fuse)(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
83	SNP40-1050IF-Brown		Pb	BL		Comply	07 Apr 2016
	plastic jacket(capacitor)		Cd	BL		Comply	'
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
84	SNP24-12VLW-silvery		Pb	OL	28764▲	Comply	07 Apr 2016
	metal pin(plug)		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)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
85	SNP24-12VLW-White		Pb	BL		Comply	07 Apr 2016
	plastic bracket(plug)		Cd	BL		Comply	,
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
86	SNP24-12VLW-Black		Pb	BL		Comply	07 Apr 2016
	plastic		Cd	BL		Comply	
	bracket(transformer)		Hg	BL		Comply	
	(PCB)		Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
87	SNP24-12VLW-Silvery		Pb	BL		Comply	07 Apr 2016
	metal piece(transformer)		Cd	BL		Comply	·
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
88	SNP24-12VLW-Yellow		Pb	BL		Comply	07 Apr 2016
	resistor body(PCB)		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
89	SNP24-12VLW-White		Pb	BL		Comply	07 Apr 2016
	plastic lump		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
90	SNP24-12VLW-Black		Pb	BL		Comply	07 Apr 2016
	plastic sheath(wire)		Cd	BL		Comply	0.7 p. 20.0
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
91	SNP24-12VLW-Black		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
92	SNP24-12VLW-Red		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		Cd	BL		Comply	, i
			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
93	SNP20-12VL-White		Pb	BL		Comply	07 Apr 2016
	plastic bottom cover		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
94	SNP20-12VF-Silvery		Pb	BL		Comply	07 Apr 2016
	metal screw		Cd	BL		Comply	07 7 pr 2010
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
95	SNP20-12VF-White		Pb	BL		Comply	07 Apr 2016
	rubber sheath(capacitor)		Cd	BL		Comply	·
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
96	SNP20-12VF-Silvery		Pb	BL		Comply	07 Apr 2016
	metal lump		Cd	OL	ND	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)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
97	SNP18-350ILD2(UL)-Whit		Pb	BL		Comply	07 Apr 2016
	e plastic shell		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
98	SNP15-700IL(UL)-S-Blac		Pb	BL		Comply	07 Apr 2016
	k diode body(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
99	SNP15-700IFP-White		Pb	BL		Comply	07 Apr 2016
	plastic sheath(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
100	SNP15-12VF-Orange		Pb	BL		Comply	07 Apr 2016
	plastic piece		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
101	SNP15-12VF-1-Silvery		Pb	BL		Comply	07 Apr 2016
	metal screw		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
102	SNP15-12VL-Blue rubber		Pb	BL		Comply	07 Apr 2016
	sheath(inductor)(PCB)		Cd	BL		Comply	07 7 pr 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
103	SNP15-500ILW-Silvery		Pb	OL	36207▲	Comply	07 Apr 2016
	metal pin(plug)		Cd	BL		Comply	, r
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
104	SNP15-500ILW-White		Pb	BL		Comply	07 Apr 2016
	plastic bracket(plug)		Cd	BL		Comply	,
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	<800 *	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
105	SNP12-24VF-silvery		Pb	BL		Comply	07 Apr 2016
	metal contacting		Cd	BL		Comply	·
	piece(joint)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
106	SNP12-24VF-silvery		Pb	BL		Comply	07 Apr 2016
	metal pin(joint)		Cd	BL		Comply	07 7 (01 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
107	SNP12-24VF-Black		Pb	BL		Comply	07 Apr 2016
	plastic shell(joint)		Cd	BL		Comply	O. 7 (p. 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
108	SNP12-500ILW-Black		Pb	BL		Comply	07 Apr 2016
	plastic bracket(plug)		Cd	BL		Comply	2.7.5.20.0
			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
109	SNP12-500ILW-Black		Pb	BL		Comply	07 Apr 2016
	plastic lump		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
110	SNP12-500ILW-Black		Pb	BL		Comply	07 Apr 2016
	plastic shell		Cd	BL		Comply	· · · · · · · · · · · · · · · · · · ·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
111	SNP12-350IF(UL)-S-Whit		Pb	BL		Comply	07 Apr 2016
	e plastic jacket(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
112	SNP10-450ILT-Silvery		Pb	BL		Comply	07 Apr 2016
	metal piece(radiator fin)		Cd	BL		Comply	·
	(PCB)		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)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
113	SNP10-450ILT-Gray		Pb	BL		Comply	07 Apr 2016
	rubber washer(radiator		Cd	BL		Comply	·
	fin)(PCB)		Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
114	SNP6-700IFP-Black		Pb	BL		Comply	07 Apr 2016
	plastic sheath(wire)		Cd	BL		Comply	0.7 p. 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
115	SNP6-700IF(UE)-Brown		Pb	BL		Comply	07 Apr 2016
	plastic shell(fuse)(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
116	SNP6-700IF(UE)-Black		Pb	BL		Comply	07 Apr 2016
	plastic bracket(fuse) (PCB)		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
117	SNP6-12VF-Black IC		Pb	BL		Comply	07 Apr 2016
	body(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
118	SNP75-12VF-1-Orange		Pb	BL		Comply	07 Apr 2016
	plastic piece		Cd	BL		Comply	07 7 pr 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
119	SNP8-24VL-1-White		Pb	BL		Comply	07 Apr 2016
	plastic shell		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
120	SS30-700IL(UE)-Black		Pb	BL		Comply	07 Apr 2016
	plastic jacket(transformer)		Cd	BL		Comply	·
	(PCB)		Hg	BL		Comply	
			Cr(VI)▼	IN	ND	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
121	SS21-350IL(UE)-White		Pb	BL		Comply	07 Apr 2016
	plastic sheath(inductor) (PCB)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
122	HAL30-12WR-Black		Pb	BL		Comply	07 Apr 2016
	plastic shell(joint)(PCB)		Cd	BL		Comply	07 7 pt 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
123	HAL30-12WR-Silvery		Pb	OL	23237▲	Comply	07 Apr 2016
	metal pin(joint)(PCB)		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
124	HAL30-12WR-Coper-colo		Pb	BL		Comply	07 Apr 2016
	red metal pin(joint)(PCB)		Cd	BL		Comply	, i
			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
125	HAL30-12WR-Black		Pb	BL		Comply	07 Apr 2016
	plastic shell(joint)(PCB)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
126	HAL30-12WR-Green		Pb	BL		Comply	07 Apr 2016
	capacitor body(PCB)		Cd	BL		Comply	O. 7 (p. 2010
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
127	HAL30-12WR-Blue plastic		Pb	BL		Comply	07 Apr 2016
	shell(resistor)(PCB)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
128	HAL30-12WR-Gray		Pb	BL		Comply	07 Apr 2016
	plastic lump(resistor)		Cd	BL		Comply	
	(PCB)		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
129	SP36-700ILT-Silvery		Pb	BL		Comply	07 Apr 2016
	metal screw		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
130	SP75-1400IL(UE)-Gray		Pb	BL		Comply	07 Apr 2016
	rubber washer		Cd	BL		Comply	07 7 pr 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
131	SP75-1400IL(UE)-Black		Pb	BL		Comply	07 Apr 2016
	metal radiator fin		Cd	BL		Comply	,
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
132	SP24-350ILT-Black		Pb	BL		Comply	07 Apr 2016
	coating(inductor)(PCB)		Cd	BL		Comply	, i
			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
133	SNP8-12VL-2-Yellow		Pb	BL		Comply	07 Apr 2016
	plastic adhesive tape		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
134	14-320D IP44-Silvery		Pb	OL	18363▲	Comply	07 Apr 2016
	metal pin(plug)		Cd	BL		Comply	07 7101 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
135	14-320D IP44-Black		Pb	BL		Comply	07 Apr 2016
	plastic bracket(plug)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
136	14-320D IP44-White		Pb	BL		Comply	07 Apr 2016
	plastic shell(plug)		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
137	14-320D IP44-White		Pb	BL		Comply	07 Apr 2016
	plastic jacket(tie)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
138	14-320D IP44-White		Pb	BL		Comply	07 Apr 2016
	plastic shell(joint)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
139	14-320D IP44-White		Pb	BL		Comply	07 Apr 2016
	plastic jacket(joint)		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
140	14-320D IP44-Silvery		Pb	BL		Comply	07 Apr 2016
	metal pin(joint)		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)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
141	14-320D IP44-White		Pb	BL		Comply	07 Apr 2016
	plastic shell(joint)(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
142	14-320D IP44-Green PCB		Pb	BL		Comply	07 Apr 2016
	body		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
143 -C	14-320D IP44-Silvery		Pb	BL		Comply	07 Apr 2016
	metal soldering tin(PCB)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
144	14-320D IP44-Silvery		Pb	BL		Comply	07 Apr 2016
	metal screw		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)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
145	14-320D IP44-Gray		Pb	BL		Comply	07 Apr 2016
	plastic shell		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
146	F15-350-White plastic		Pb	BL		Comply	07 Apr 2016
	bracket(plug)		Cd	BL		Comply	O. 7 (p. 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
147	F15-350-White plastic		Pb	BL		Comply	07 Apr 2016
	shell(plug)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
148	F15-350-White plastic		Pb	BL		Comply	07 Apr 2016
	jacket(tie)		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
149	F15-350-Silvery plastic		Pb	BL		Comply	07 Apr 2016
	label		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
150	F15-350-White plastic		Pb	BL		Comply	07 Apr 2016
	shell		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
151	SP30-1050IL(UE)-Black		Pb	BL		Comply	07 Apr 2016
	plastic shell		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
152	SP30-1050IL(UE)-Red		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		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
153	SP30-1050IL(UE)-Brown		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
154	SP30-1050IL(UE)-White		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		Cd	BL		Comply	07 Apr 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
155	SP30-1050IL(UE)-Black		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		Cd	BL		Comply	07 7 pr 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
156	SP30-1050IL(UE)-Blue		Pb	BL		Comply	07 Apr 2016
	plastic jacket(wire)		Cd	BL		Comply	01 Apr 2010
			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
157	SPF40-12A-Black plastic		Pb	BL		Comply	07 Apr 2016
	shell		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
158	SPF40-12A-Black plastic		Pb	BL		Comply	07 Apr 2016
	sheath(fuse)(PCB)		Cd	BL		Comply	0.7 p. 20.0
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
159	SPF40-12A-Black plastic		Pb	BL		Comply	07 Apr 2016
	sheath(wire)		Cd	BL		Comply	'
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
160	SPF40-12A-Red plastic		Pb	BL		Comply	07 Apr 2016
	jacket(wire)		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
161	SPF40-12A-Black plastic		Pb	BL		Comply	07 Apr 2016
	jacket(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
162	SPF40-12A-White plastic		Pb	BL		Comply	07 Apr 2016
	jacket(wire)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
163	SPF40-12A-Black plastic		Pb	BL		Comply	07 Apr 2016
	jacket(wire)		Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
164	SPF40-12A-Black plastic		Pb	BL		Comply	07 Apr 2016
	lump(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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中国・浙江・宁波市国家高新区凌云路1177号凌云产业园4号楼西1-5层

邮编: 315040 tHL (86-574)89070271 tTY (86-574)89070211 e sgs.china@sgs.com



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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
165	SPF60-15A-Black plastic end cover		Pb	BL		Comply	07 Apr 2016
			Cd	BL		Comply	·
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
166	SPF90-12A-Black plastic		Pb	BL		Comply	07 Apr 2016
	sheath(wire)		Cd	BL		Comply	07 7tpl 2010
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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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/cm<sup>2</sup>.



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- (c) ▼ =Metal sample
  - a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13  $\mu$ g/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  $\mu g/cm^2$ ). The coating is considered a non-CrVI based coating
  - c. The result between  $0.10 \ \mu g/cm^2$  and  $0.13 \ \mu g/cm^2$  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 <a href="http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:1258637">http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:1258637</a>, 25>



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- (d) ▲=According to the declaration from the client, Lead (Pb) in No.36, No.84, No.103, No.123 and No.134 are exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 6(c)|: Copper alloy containing up to 4 % lead by weight. Lead (Pb) in No.13 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- (3) According to the declaration from applicant, the materials of other parts in Model mentioned in Tested Extended Model No. are the same as those in Model "SNP150-12VL", and the results of Model "SNP150-12VL" for support the results of other parts in Model mentioned in Tested Extended Model No.. The applicant will take the responsibility of all discrepancy and risk.
- (4) According to the declaration from applicant, the materials of Model "SNP150-12VL" are the same as those in Model mentioned in Client Ref. Information and its results for support the results of Model mentioned in Client Ref. Information. The applicant will take the responsibility of all discrepancy and risk.
- (5) \* = Considering insufficient sample amount, the Method Detection Limit (MDL) is raised appropriately.



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Attachment:		ave a cearen		avec cure
1 SNP200-12VL		SNP15-350IFP		SNP30-24VFP
2 15-12D		SNP15-350IL		SNP30-24VL
3 15-350		SNP15-350IL(UL)		SNP30-24VL(UL)
4 SNP15-350IF		SNP15-350IL(UL)-S		SNP30-24VL(UL)-S
5 SNP15-350IF-1		SNP15-350IL-1		SNP30-350IF-1
6 SNC20-24VF(009-104)	58	SNP15-350ILT-1	106	SNP30-500IF
7 SNP100-12VF-1	59	SNP15-350ILW	107	SNP30-500IF-1
8 SNP100-12VL(UE)	60	SNP15-400IL	108	SNP30-700IF
9 SNP100-24VF-1	61	SNP15-500IF	109	SNP30-700IF-1
10 SNP100-24VF-1S	62	SNP15-500IL(UL)	110	SNP40-1400IF
11 SNP100-24VL(UE)	63	SNP15-700IF	111	SNP40-2100IF
12 SNP100-36VL(UE)	64	SNP15-700IF-1	112	SNP40-24VF
13 SNP10-350ILT	65	SNP15-700IFP	113	SNP40-500IF
14 SNP10-351ILT-1	66	SNP15-700IL	114	SNP40-700IF
15 SNP12-12VF	67	SNP15-700IL(UL)-S	115	SNP4-350ILP
16 SNP12-12VF(UL)	68	SNP15-700IL-1	116	SNP4-700ILP
17 SNP12-12VF(UL)-S	69	SNP15-700ILT-2	117	SNP50-1050IF
18 SNP12-12VFP	70	SNP15-700ILW	118	SNP50-12VF
19 SNP12-12VLW	71	SNP18-350ILD2(UL)-1	119	SNP50-1400IF
20 SNP12-24VF(UL)		SNP18-350ILD2-1(UL)		SNP50-2100IF
21 SNP12-24VF (UL)-S		SNP18-700ILT		SNP50-24VF(UE)
22 SNP12-24VFP		SNP18-700ILT(UL)		SNP50-24VF-1
23 SNP12-24VLW		SNP200-24VL		SNP50-500IF
24 SNP12-350IF		SNP20-24VF		SNP50-700IF
25 SNP12-350IF(UL)		SNP20-24VL		SNP50-950IF
26 SNP12-350IFP		SNP20-350IF		SNP60-1400IF
27 SNP12-350ILW		SNP20-500IF		SNP60-2100IF
28 SNP12-500IF		SNP20-700IF		SNP60-24VF
29 SNP12-700IF		SNP24-12VLW		SNP60-24VF-1
30 SNP12-700IF(UL)		SNP24-350ILW		SNP60-24VFP-1
31 SNP12-700IF(UL)-S		SNP24-500ILW		SNP60-500IF
32 SNP12-700IFP		SNP24-700ILW		SNP60-700IF
33 SNP12-700ILW		SNP30-1050IF		SNP6-12VF(UE)
34 SNP13-320IL		SNP30-1050IF-1		SNP6-12VFP
35 SNP150-12VF-1		SNP30-10301F-1		SNP6-24VF
36 SNP150-24VF-1		SNP30-12VF-2		SNP6-24VF(UE)
		SNP30-12VF-3		
37 SNP150-24VL	22	SMF3U=14VF=3	13/	SNP6-350IF



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38	SNP15-12VFP	90	SNP30-12VL	138	SNP6-350IF(UE)
39	SNP15-12VL	91	SNP30-12VL(UL)	139	SNP6-350IF(UE)-1
40	SNP15-12VL(UL)	92	SNP30-12VL(UL)-S	140	SNP6-350IFP
41	SNP15-12VL(UL)-S	93	SNP30-12VL-1	141	SNP6-500IF
42	SNP15-12VL-1	94	SNP30-1400IF	142	SNP6-500IF(UE)
43	SNP15-12VLW	95	SNP30-1400IF-1	143	SNP6-500IF(UE)-1
44	SNP15-24VF	96	SNP30-2100IF	144	SNP6-700IF
45	SNP15-24VF-1	97	SNP30-24VF	145	SNP6-700IF(UE)-1
46	SNP15-24VFP	98	SNP30-24VF-1	146	SNP75-1050IL(UE)
47	SNP15-24VL(UL)	99	SNP30-24VF-2	147	SNP75-12VL
48	SNP15-24VL(UL)-S	100	SNP30-24VF-3	148	SNP75-12VL(UE)
49	SNP15-24VL-1	251	SNP100-12VF-1S	149	SNP75-12VL-A
50	SNP15-24VLW	252	SNP60-12VFP-1	150	SNP75-1400IL(UE)
151	SNP75-2100IL(UE)	185	SP30-1400IL(UE)-1	219	SPF60-24B
152	SNP75-24VF-1	186	SP30-350IL(UE)	220	SPF60-24D
153	SNP75-24VL	187	SP30-350IL(UE)-1	221	SPF60-36A
154	SNP75-24VL(UE)	188	SP30-700IL(UE)	222	SPF60-36B
155	SNP75-700IL(UE)	189	SP30-700IL(UE)-1	223	SPF60-36D
156	SNP75-950IL(UE)	190	SP30-950IL(UE)	224	SPF60-48A
157	SNP8-12VL	191	SP30-950IL(UE)-1	225	SPF60-48B
158	SNP8-12VL-1	192	SP36-1050ILT	226	SPF60-48D
159	SNP8-24VL	193	SP36-350ILT	227	SPF90-12B
160	SNP8-24VL-2	194	SP36-500ILT	228	SPF90-12D
161	SNP8-24VLW	195	SP75-1050IL(UE)	229	SPF90-15A
162	SNP8-350IL	196	SP75-2100IL(UE)	230	SPF90-15B
163	SNP8-350IL-1	197	SP75-700IL(UE)	231	SPF90-15D
164	SNP8-350IL-2	198	SP75-950IL(UE)	232	SPF90-24A
165	SNP8-350ILW	199	SPF40-12B	233	SPF90-24B
166	SNP8-500IL	200	SPF40-12D	234	SPF90-24D
167	SNP8-500IL-1	201	SPF40-15A	235	SPF90-36A
168	SNP8-500IL-2	202	SPF40-15B	236	SPF90-36B
169	SNP8-500ILW	203	SPF40-15D	237	SPF90-36D
170	SNP8-700IL	204	SPF40-24A	238	SPF90-48A
171	SNP8-700IL-1	205	SPF40-24B	239	SPF90-48B
172	SNP8-700IL-2	206	SPF40-24D	240	SPF90-48D
173	SNP8-700ILW	207	SPF40-36A	241	SS21-500IL
174	SP15-350ILT	208	SPF40-36B	242	SS21-700IL



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175 SP15-500ILT	209 SPF40-36D	243 SS21-350IL (UE)
176 SP15-700ILT	210 SPF40-48A	244 SS30-1050IL
177 SP18-350ILT	211 SPF40-48B	245 SS30-1400IL
178 SP18-500ILT	212 SPF40-48D	246 SS30-700IL
179 SP18-700ILT	213 SPF60-12A	247 SS30-950IL
180 SP24-1050ILT	214 SPF60-12B	248 SNP60-1050IF
181 SP24-500ILT	215 SPF60-12D	249 SNP75-24VL-A
182 SP24-700ILT	216 SPF60-15B	250 SNP8-12ILW
183 SP30-1050IL(UE)	217 SPF60-15D	251 LAS-01
184 SP30-1400IL(UE)	218 SPF60-24A	252 LAS-02



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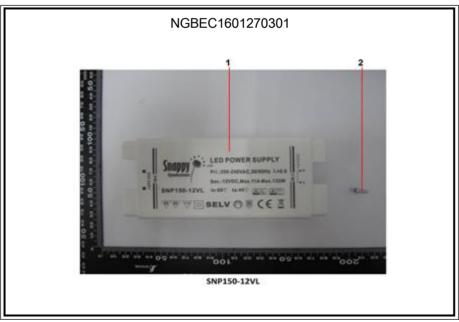
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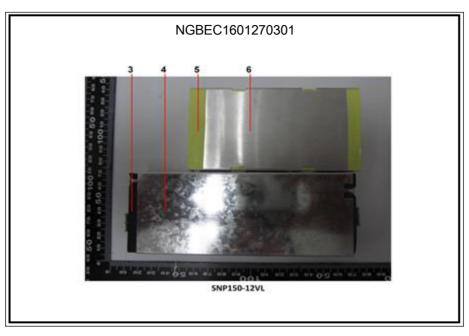
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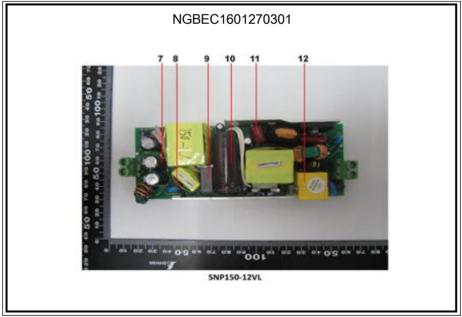
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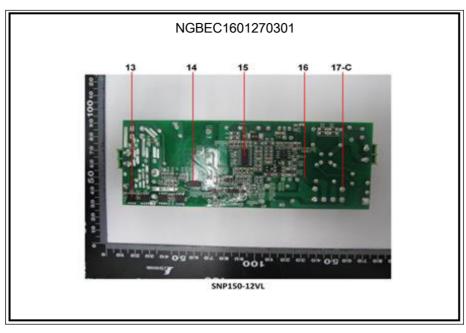
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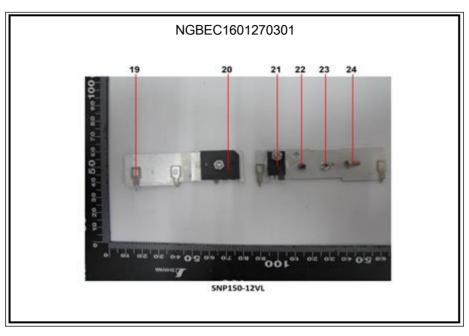
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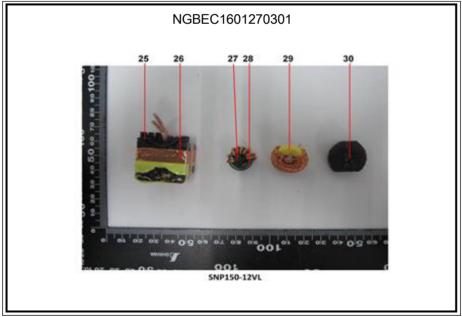
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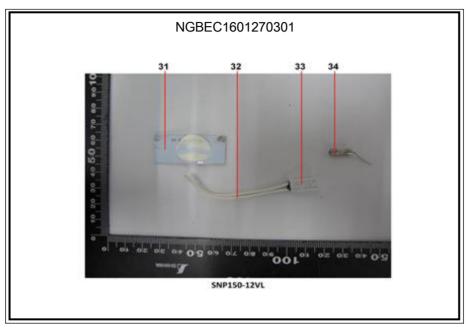
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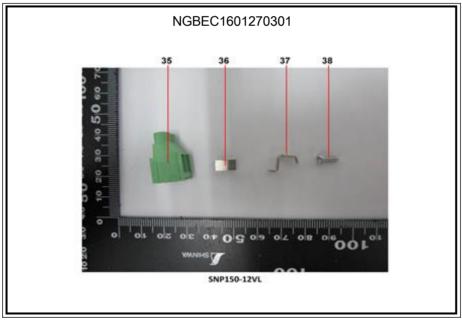


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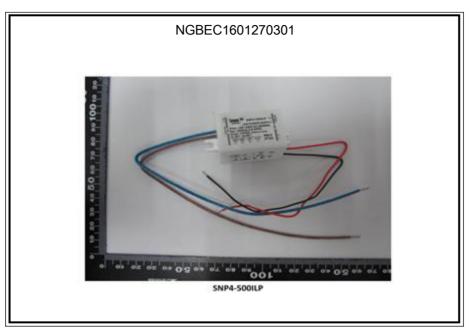
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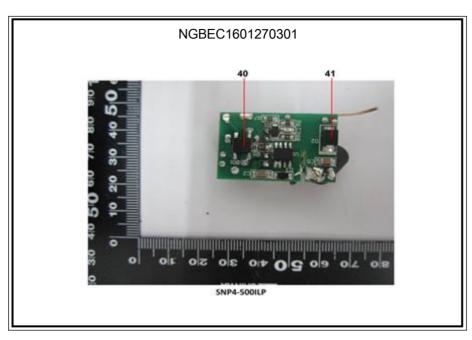
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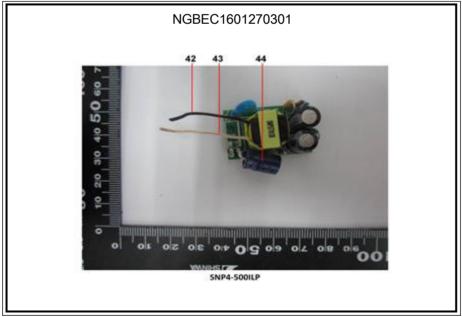
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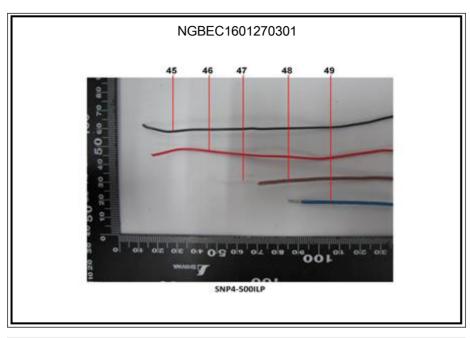
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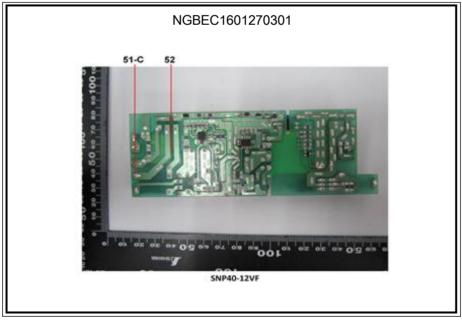
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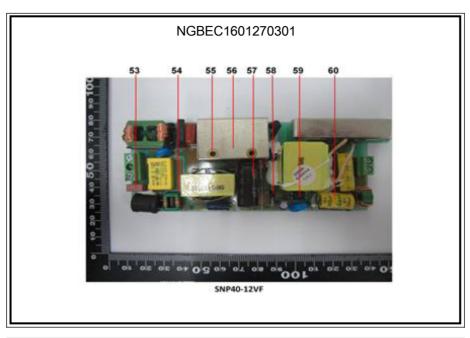
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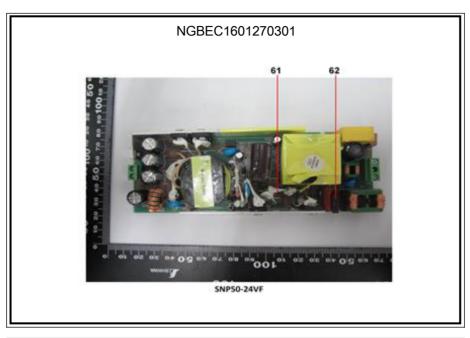
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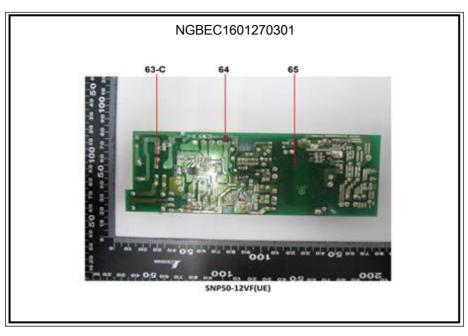
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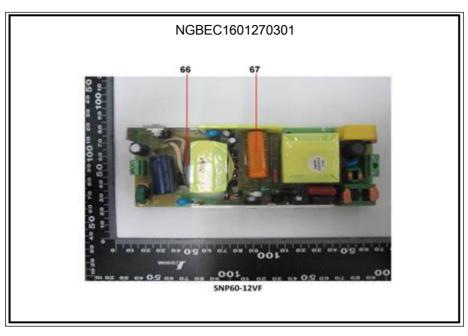
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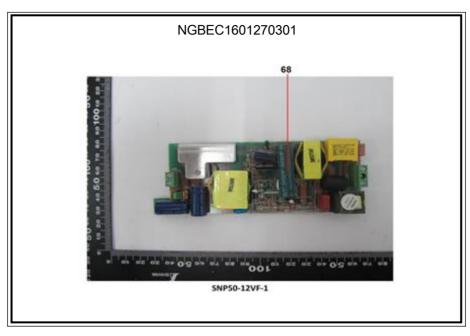
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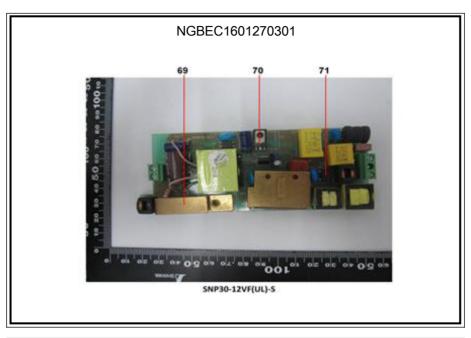
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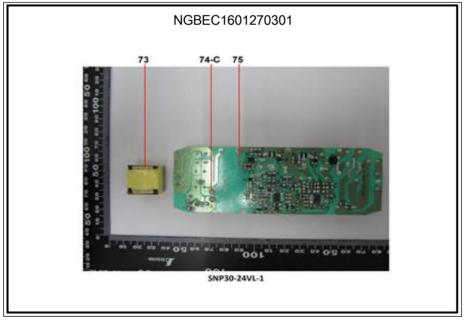
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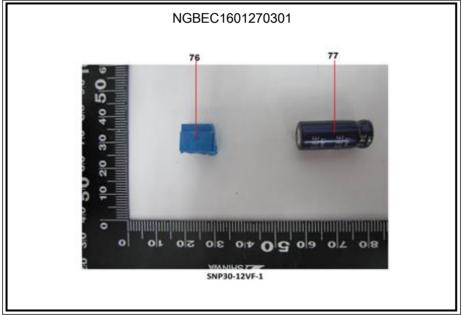
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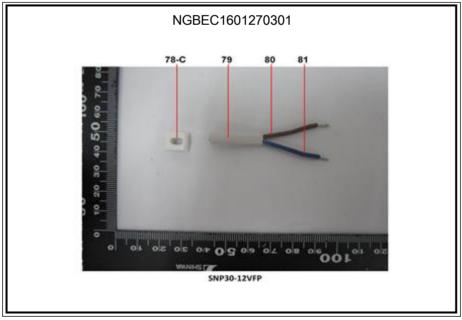


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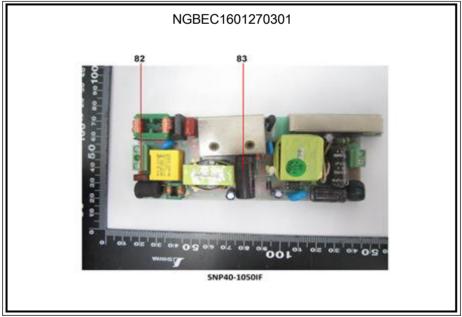
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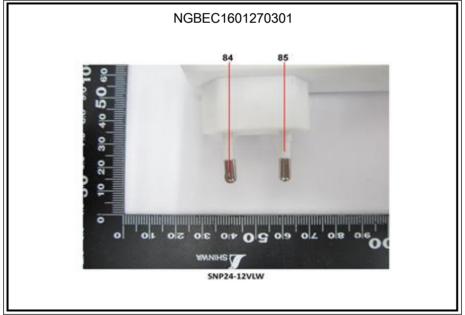


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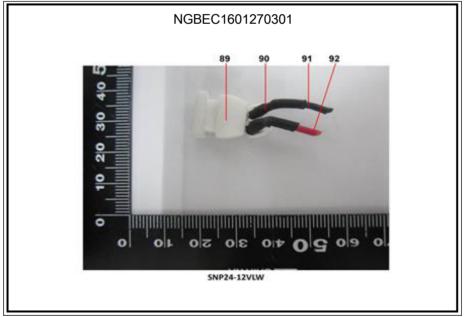
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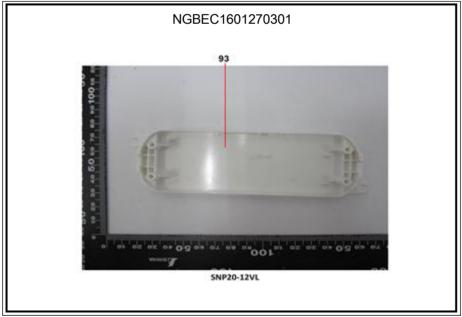
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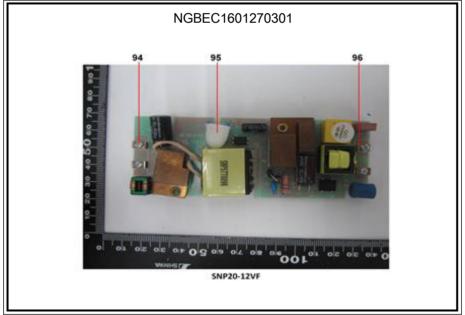


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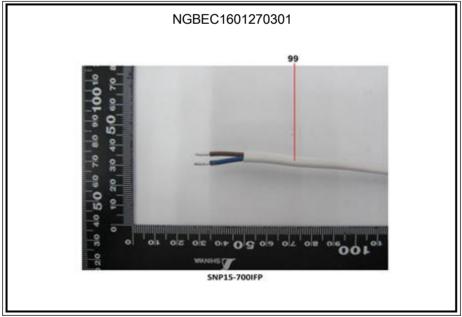


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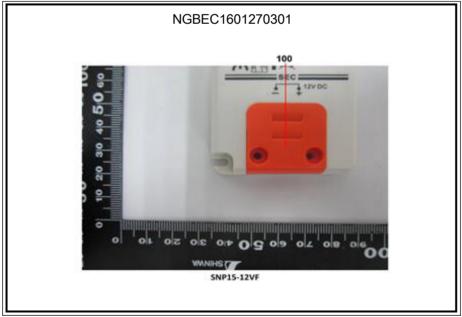
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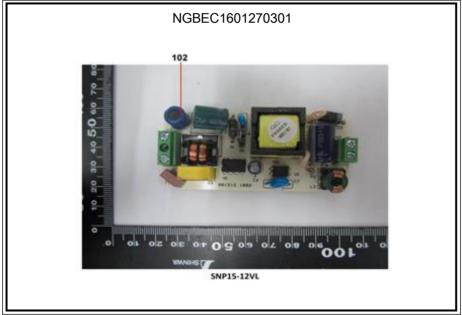
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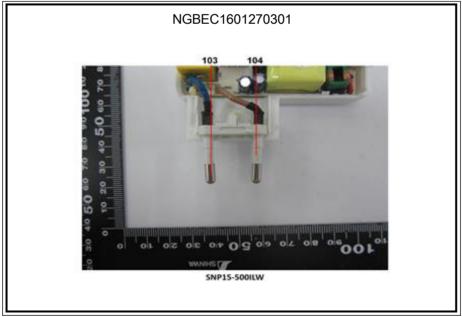
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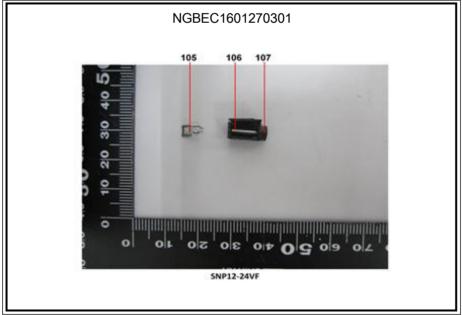
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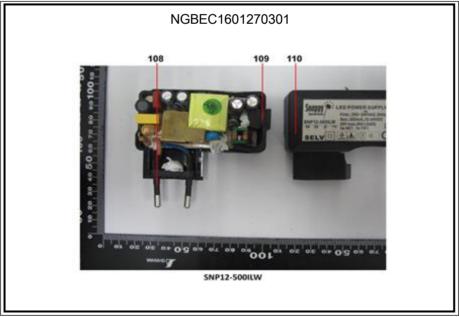


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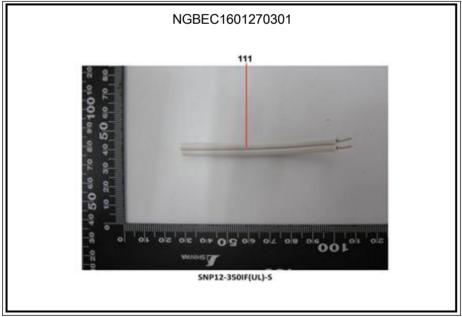
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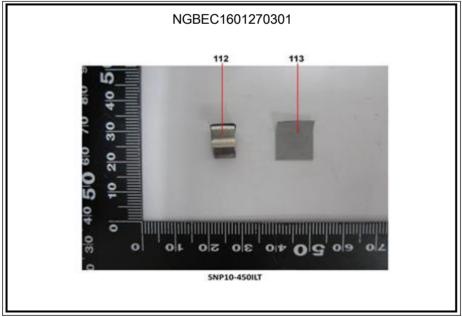
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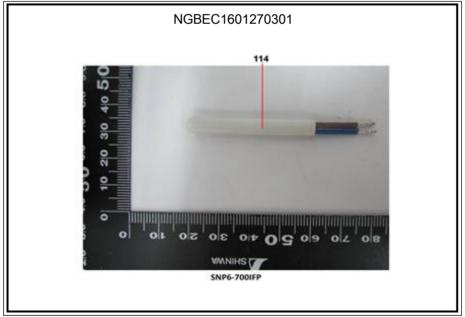


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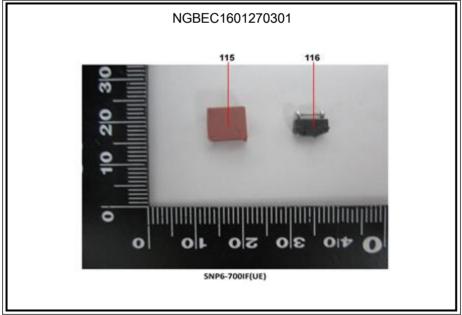
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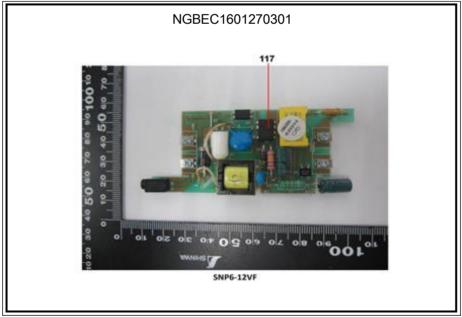
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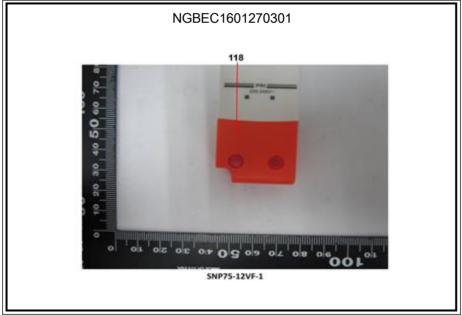
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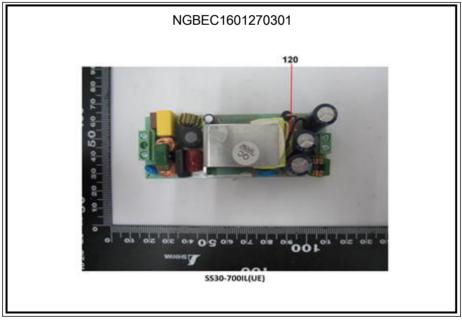


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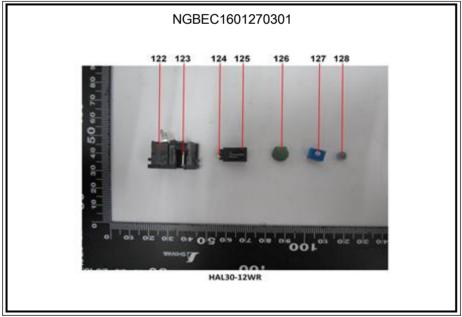


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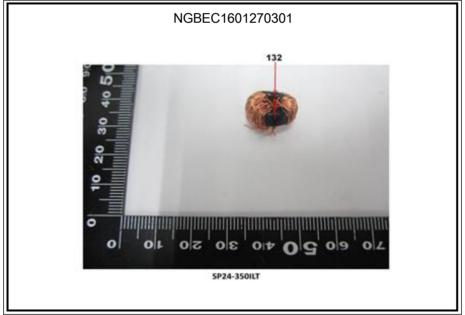
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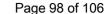
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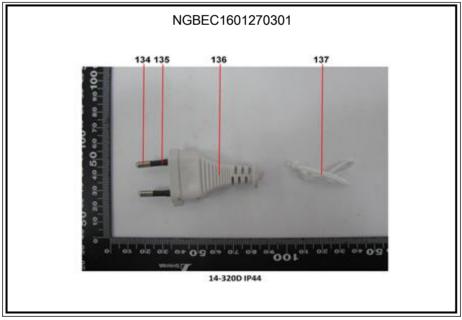


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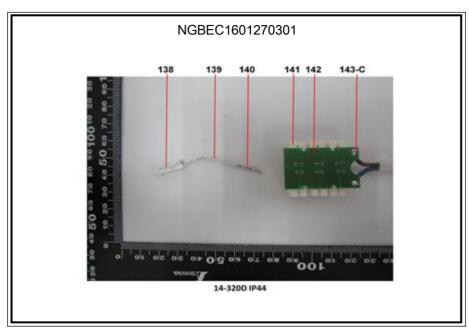
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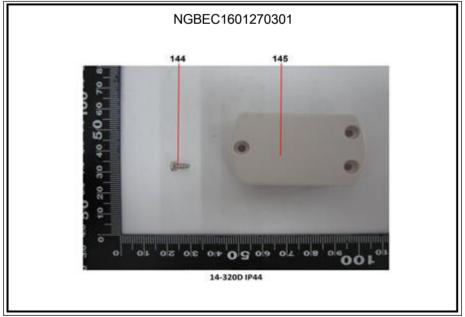
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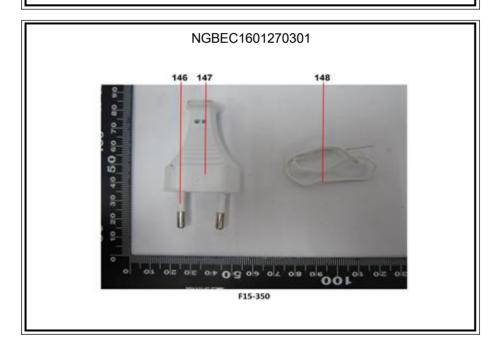
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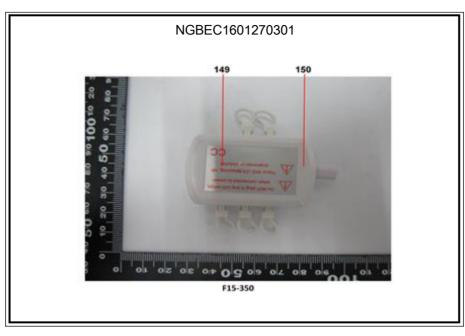
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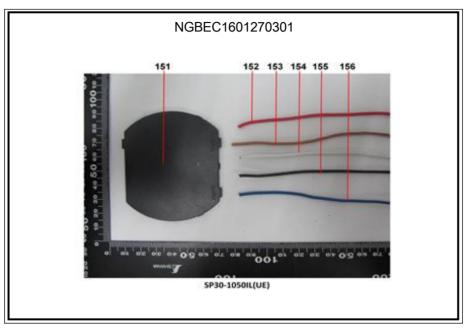
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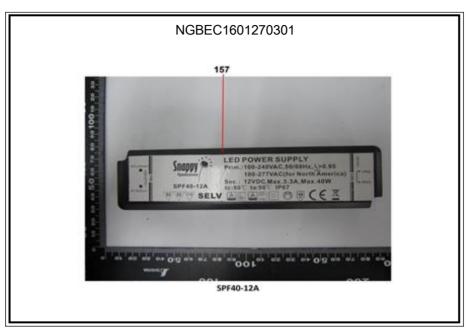
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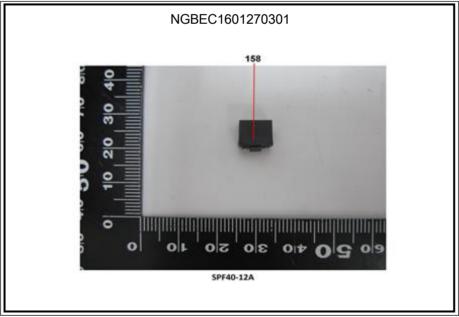
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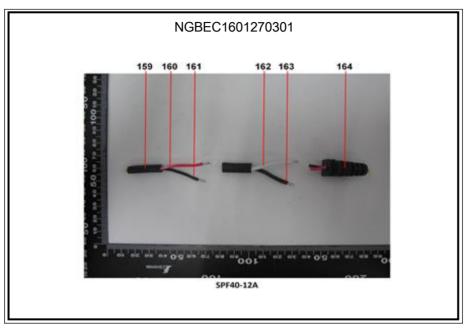
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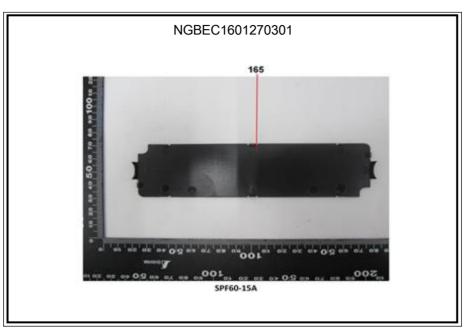
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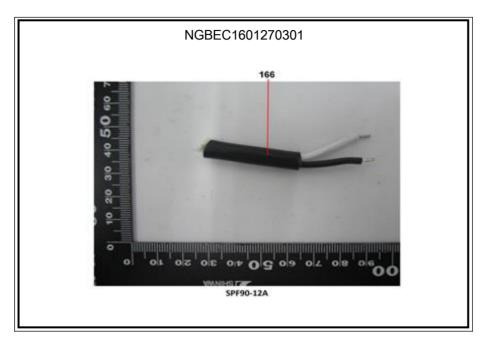
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