

## Verification Report

No. NGBEC1301691101

Date: 27 Sep 2013

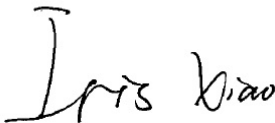
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NINGBO HI-TECH PARK PEASWAY ELECTRONIC TECHNOLOGY CO.,LTD.

NO.66 JINTENG ROAD, WUXIANG INDUSTRY ZONE, YINZHOU DISTRICT, NINGBO, ZHEJIANG, CHINA

Sample Name : WATER ALARM(WATER DETECTOR)  
SGS Job No. : NP13-001700 - NB  
Tested Basic Model No. : PW-312  
Client Ref. Information : PW-312R  
Date of Sample Received : 10 Sep 2013  
Verification Period : 10 Sep 2013 - 24 Sep 2013  
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 review of previous reports and verification results of the submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) 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.

Signed for and on behalf of  
SGS-CSTC Ltd.



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 and the related test reports submitted by the Applicant
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in the 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 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.
    - e. With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

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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
1	PW-312-White plastic shell		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013
2	PW-312-Silvery metal contact piece(cover)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013
3	PW-312-Beige solid adhesive(cover)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013
4	PW-312-Silvery metal connecting sheet(wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013

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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	PW-312-Black plastic jacket(wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013
6	PW-312-Silvery metal core(wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL IN BL BL --- ---	--- ND --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013 17 Sep 2013
7	PW-312-Beige plastic shell		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013
8	PW-312-White solid adhesive		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013

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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	PW-312-Silvery metal screw		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013
10	PW-312-Silvery metal core(wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013
11	PW-312-Black plastic jacket(wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	OL BL BL BL BL BL	188 --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013 17 Sep 2013
12	PW-312-Black plastic sheath(battery case)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013

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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	PW-312-Silvery metal contact piece(battery case)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013
14	PW-312-Silvery metal rivet(battery case)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013
15	PW-312-Red paper board(battery case)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013
16	PW-312-Red plastic jacket(wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013

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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	PW-312-Black plastic jacket(wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013
18	PW-312-Silvery metal soldering tin		Pb Cd Hg Cr(VI) PBBs PBDEs	BL OL BL BL --- ---	--- ND --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013 17 Sep 2013
19	PW-312-Green PCB body		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- ND ND	Comply Comply Comply Comply Comply Comply	10 Sep 2013 17 Sep 2013
20	PW-312-Silvery metal pin(audion)(PCB)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL OL BL BL --- ---	--- ND --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013 17 Sep 2013

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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	PW-312-Black audion body(PCB)		Pb	BL	---	Comply	10 Sep 2013 17 Sep 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
22	PW-312-White plastic shell(joint)(PCB)		Pb	BL	---	Comply	10 Sep 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
23	PW-312-Silvery metal pin(joint)(PCB)		Pb	BL	---	Comply	10 Sep 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
24	PW-312-Black IC body(PCB)		Pb	BL	---	Comply	10 Sep 2013
			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
25	PW-312-Black diode body(PCB)		Pb	BL	---	Comply	10 Sep 2013 17 Sep 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
26	PW-312-Blue plastic jacket(joint)		Pb	BL	---	Comply	10 Sep 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
27	PW-312-White plastic shell(joint)		Pb	BL	---	Comply	10 Sep 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
28	PW-312-Silvery metal connecting sheet(joint)		Pb	BL	---	Comply	10 Sep 2013
			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
29	PW-312-Golden metal piece(buzzer)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Sep 2013
30	PW-312-White ceramic piece(buzzer)		Pb Cd Hg Cr(VI) PBBs PBDEs	OL ▲ BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	10 Sep 2013 17 Sep 2013

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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	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(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	2	2	2

The MDL for single compound of PBBs and PBDEs is 5 mg/kg, MDL of Cr(VI) for polymer and composite sample is 2 mg/kg.

- (c) According to IEC 62321:2008, result on Cr(VI) for metal sample is shown as Positive/Negative. Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

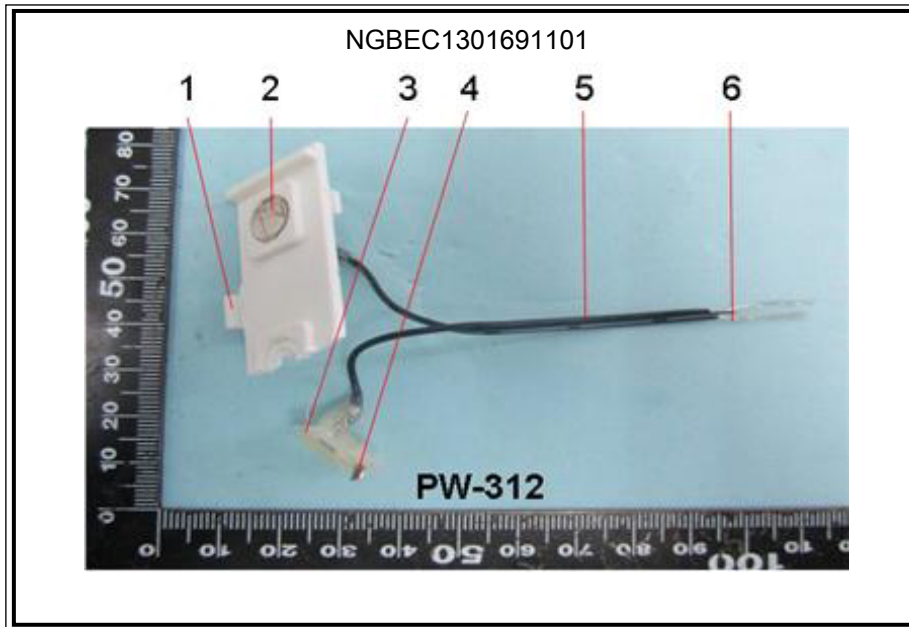
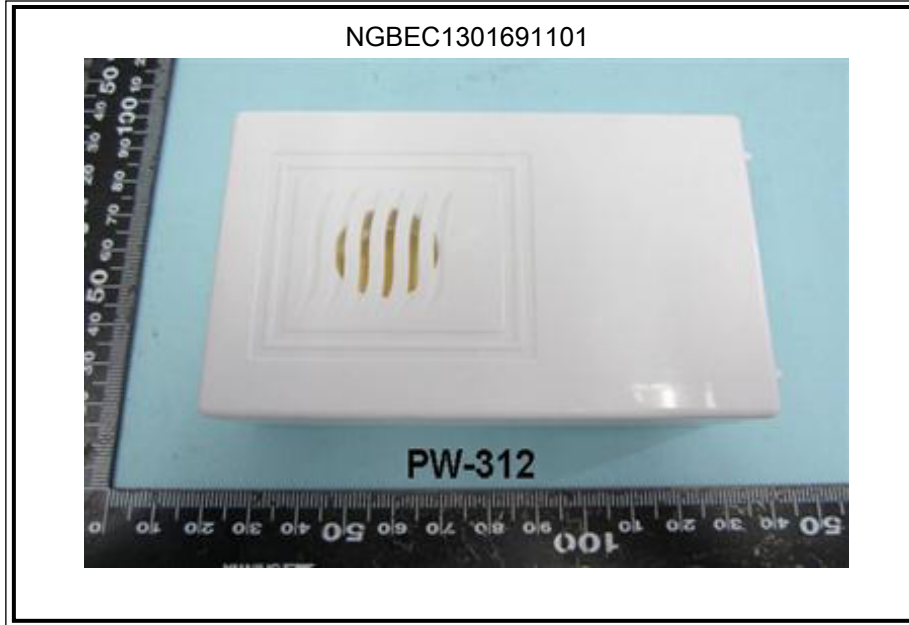
(d)▲=According to the declaration from the client, Lead (Pb) in No.30 is exempted by EU RoHS Directive 2011/65/EU based on: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

(3) According to the declaration from applicant, the materials of Model "PW-312." are the same as those in Model "PW-312R." and its results for support the results of Model "PW-312R.". The applicant will take the responsibility of all discrepancy and risk.

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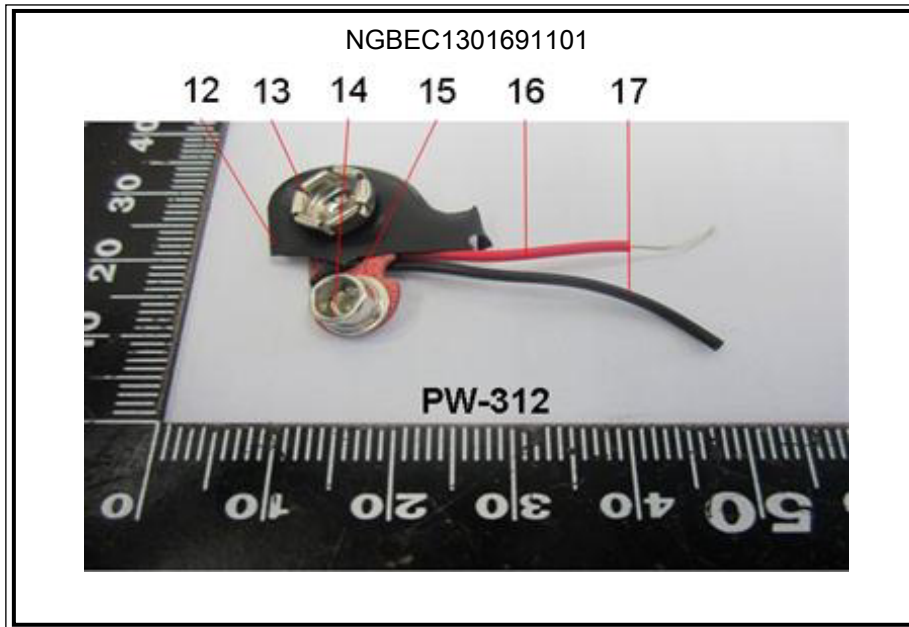
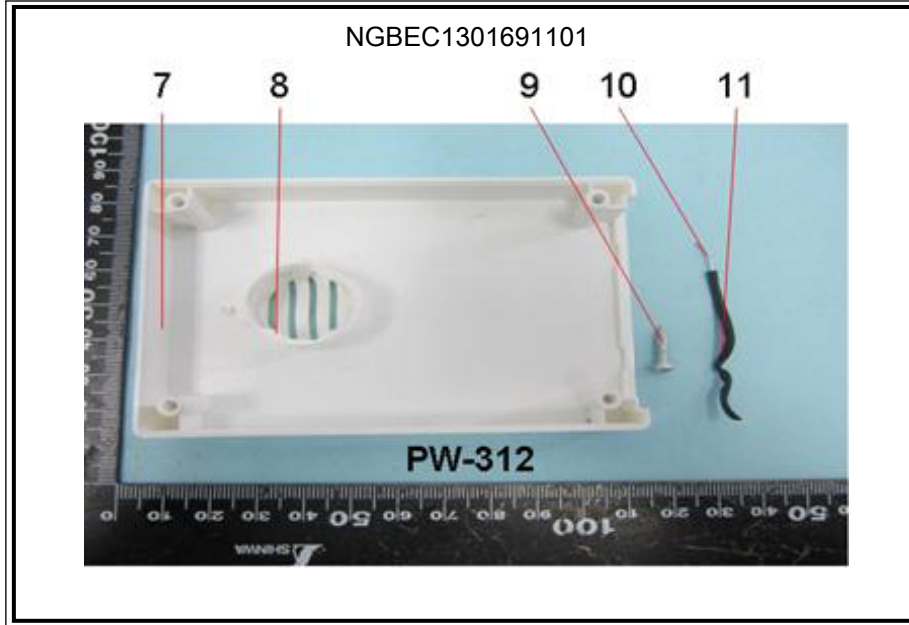
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Sample photo:



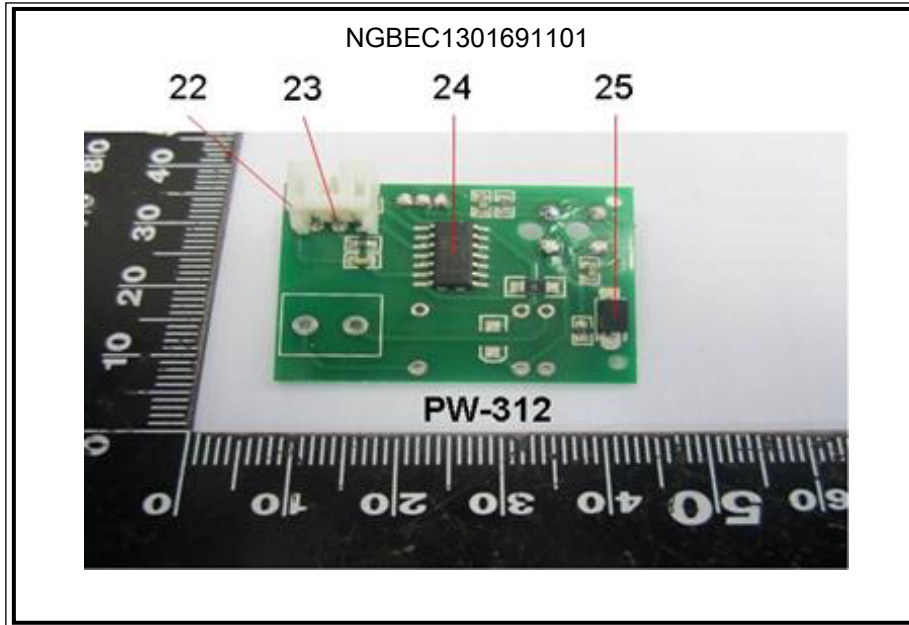
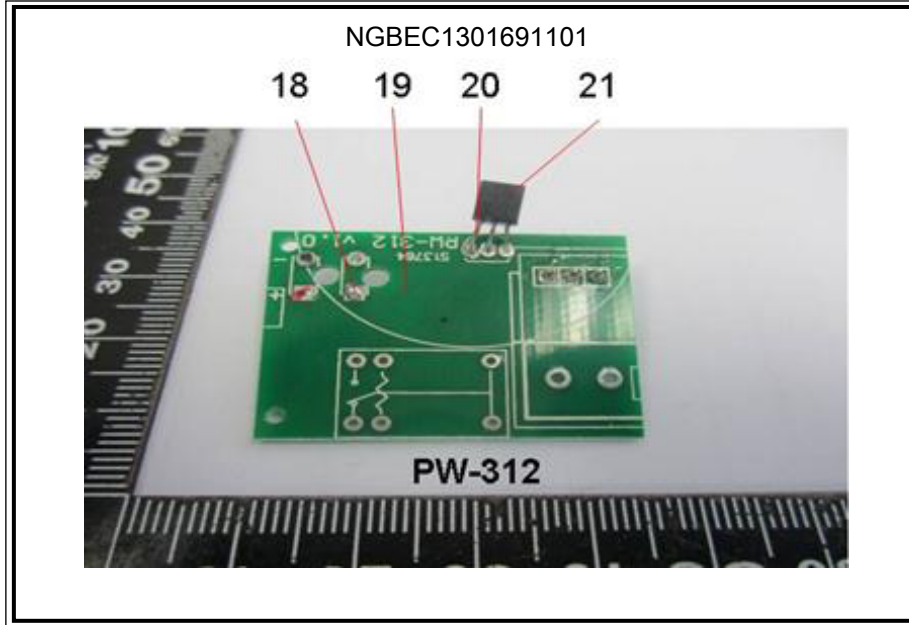
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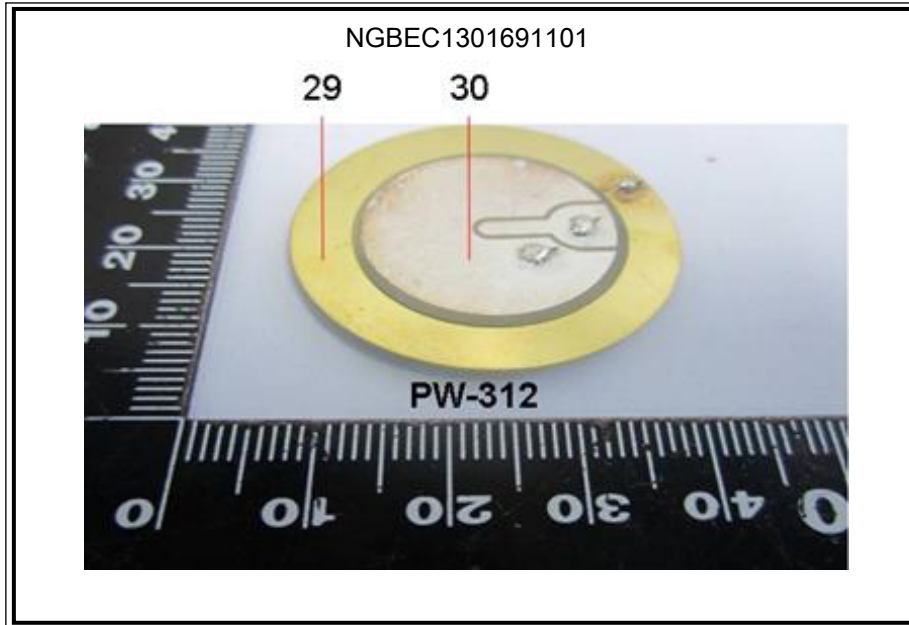
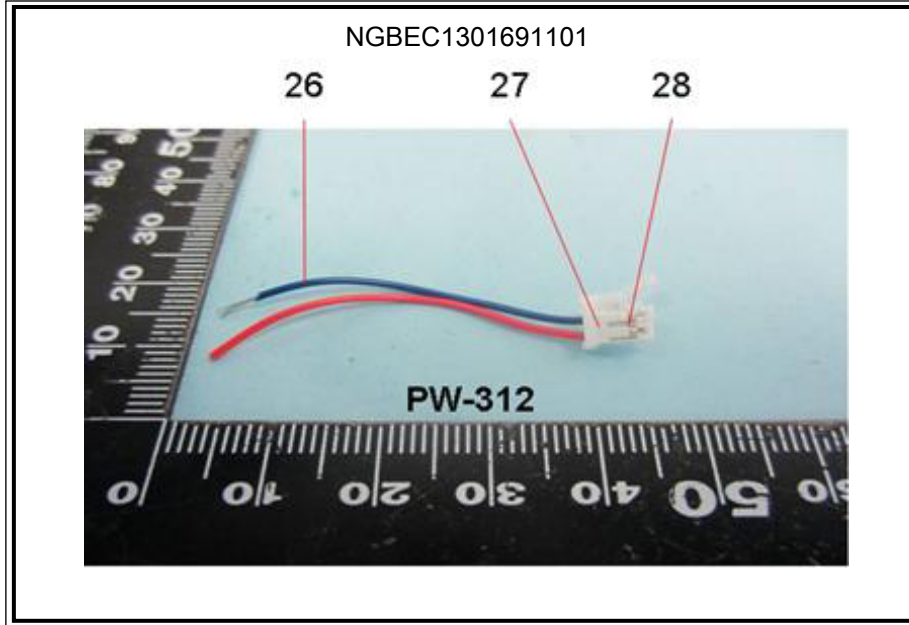
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