



# Test Report

Report No.: PTC-HX-04161100302ENA

Date: Nov. 05, 2016

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Applicant:

Address:

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** FLOW WIRELESS SPEAKER

**Sample Model:** P326.93X

**Sample Received Date:** Nov. 01, 2016

**Completed Date:** Nov. 05, 2016

**Test Requested and Conclusion(s):**

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	RoHS Directive 2011/65/EU	PASS

**Test Result(s):** Please refer to next page(s).

Signed for and on Behalf of PTC



Havin Zhou / P & C Department Manager

DongGuan Precise Testing and Certification Corp. Ltd.



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## Test Result(s):

RoHS - Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr<sup>6+</sup>)/PBBs/PBDEs

Method: IEC 62321: 2008, analyzed by EDXRF & AAS & ICP-AES & GC-MS & UV-Vis.

Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
1	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
2	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
3	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
4	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
5	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
6	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
7	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
8	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
9	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
10	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
11	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
12	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
13	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
14	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	OL	Negative	PASS
	PBBs	--	--	--
	PBDEs		--	--
15	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
16	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
17	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
18	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
19	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
20	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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21	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
22	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
23	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
24	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
25	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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26	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
27	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
28	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
29	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
30	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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31	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
32	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
33	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
34	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
35	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
36	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
37	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	IN	N.D.	PASS
	PBDEs		N.D.	PASS
38	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
39	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
40	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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41	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
42	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
43	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr <sup>6+</sup>	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (<RL).
  3. RL(Reporting Limit): 5 mg/kg for Pb/ Cd/ Hg/ Cr<sup>6+</sup>(Nonmetal material); 5 mg/kg for PBBs & PBDEs.
  4. Negative = Absence of Cr<sup>6+</sup>.
  5. Positive = Presence of Cr<sup>6+</sup>: the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.
  6. “\*” = It is the result on total Cr and Br while test substances are Cr<sup>6+</sup> and PBBs & PBDEs.
  7. “#” = Result are obtained by EDXRF for primary screening, if the result exceeds the below limit (BL), and further chemical testing.
  8. “E” = This material is tin-lead solder or copper alloy proved by client, lead in tin-lead solder or copper alloy is exempted on the requirements of RoHS directive(EU Directive 2002/95/EC).

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## Screening limits in mg/kg for regulated elements in various matrices

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

BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection

## Test Material List

The following materials apply only to the samples submitted for chemical testing.

Material No.	Description	Location
1	Silvery metal with black coating	Shell P236.93K
2	White plastic	Shell P236.93K
3	Black plastic with white printing	Shell P236.93K
4	Black plastic with white printing	Shell key P236.93K
5	Bright black plastic	Inner stator P236.93K
6	Black fabric	Inner dust cloth P236.93K
7	Black plastic with glue	Shell P236.93K
8	Silvery metal	Square head bolts P236.93K
9	Bright black plastic	Inner horn dust cover (two) P236.93K
10	Black plastic	Inner horn cone basin (two) P236.93K
11	Brown gauze	Inner horn damper (two) P236.93K
12	Silvery metal with rose red plating	Inner horn voice coil (two) P236.93K
13	Silvery metal	Inner horn basin stand (two) P236.93K
14	Silvery metal	Inner horn T iron (two) P236.93K
15	Black magnet	Inner horn magnet (two) P236.93K
16	Black sponge	Inner horn T iron (two) P236.93K
17	Copper metal	Inner horn connecting wire (two) P236.93K
18	White plastic	Inner horn connecting wire base (two) P236.93K

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19	Black plastic	Inner vibrating membrane P236.93K
20	Silvery metal with black coating	Inner vibrating membrane paster P236.93K
21	Black plastic	Inner connecting wire ecderon (thick) P236.93K
22	Red plastic	Inner connecting wire ecderon (thick) P236.93K
23	Silvery metal	Inner connecting wire core (thick) P236.93K
24	Black plastic	Inner connecting wire ecderon (middle) P236.93K
25	Red plastic	Inner connecting wire ecderon (middle) P236.93K
26	White plastic	Inner connecting wire ecderon (middle) P236.93K
27	Copper metal	Inner connecting wire core (middle) P236.93K
28	Black plastic	Inner connecting wire ecderon (thin) P236.93K
29	Red plastic	Inner connecting wire ecderon (thin) P236.93K
30	Silvery metal	Inner connecting wire core (thin) P236.93K
31	Silvery metal	Inner USB socket shell P236.93K
32	Grey plastic	Inner USB socket inner P236.93K
33	Black plastic	Inner socket P236.93K
34	Silvery metal	Inner socket P236.93K
35	Black ceramic	Inner integrated circuit P236.93K
36	Silvery metal	Inner crystal oscillator P236.93K
37	Beige plastic	Inner key P236.93K
38	Copper metal	Inner key P236.93K
39	Silvery metal	Inner key base P236.93K
40	White paper with black/green printing	Inner QC sticker P236.93K
41	White epoxy resin plate with green/white coating	Inner PCB board P236.93K
42	Blue plastic	Inner battery scarfskin P236.93K
43	Silvery metal	Inner battery shell P236.93K

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Photo(s) of Sample:



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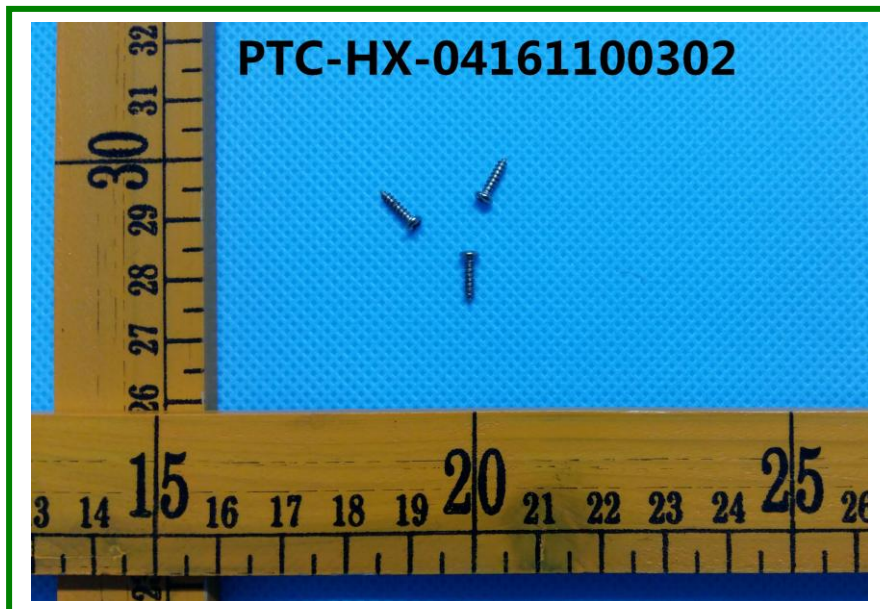


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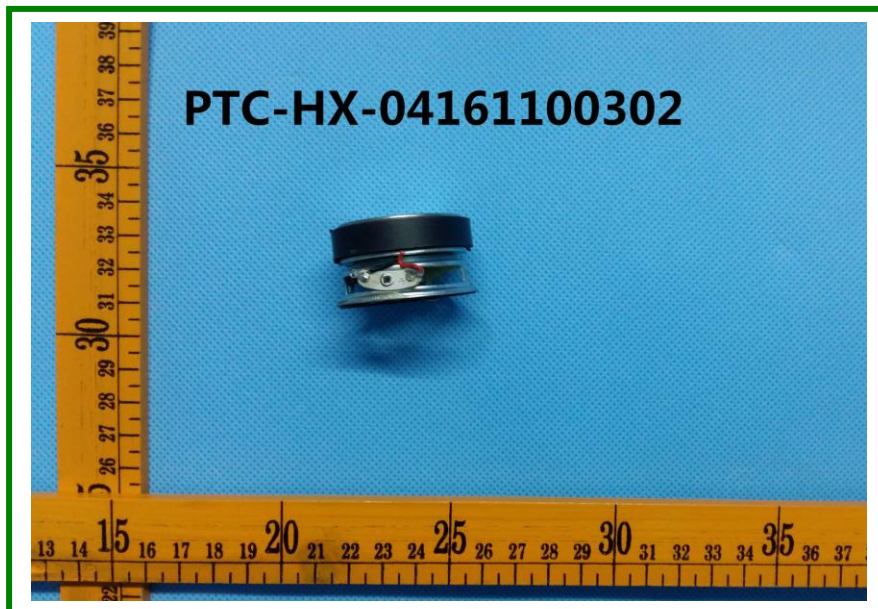


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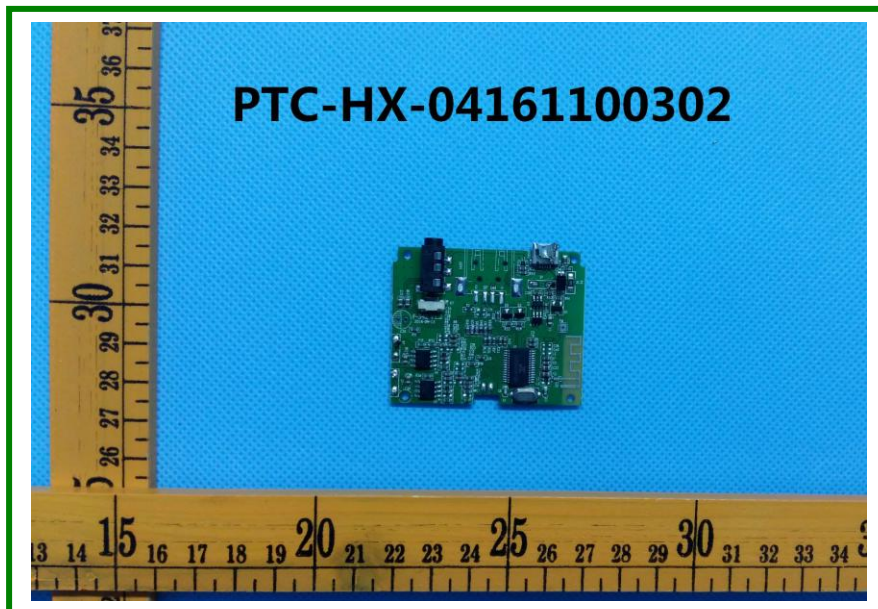
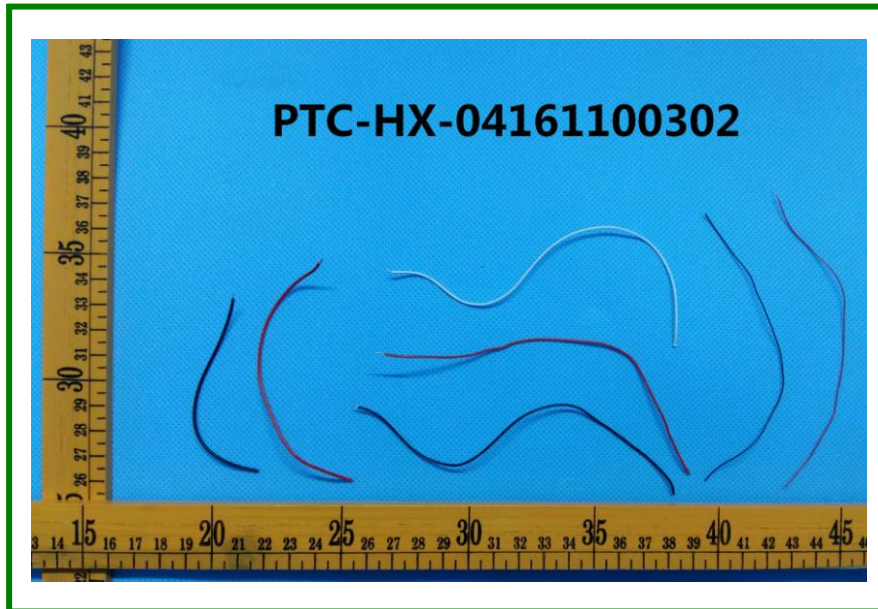


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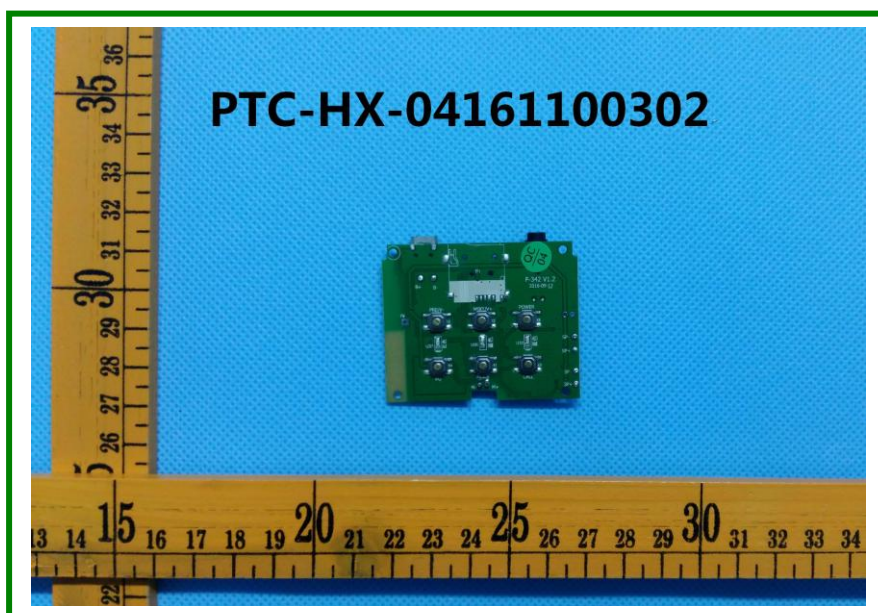


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