



Test Report

Report No: BSTDG230322481903CR

Date: Mar. 23, 2023

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Applicant : GO-JOYTY AUDIO(HK) CO.,LIMITED
Address : Room E28,3rd Floor,Yongda Commercial Building,No.97,Salty Tung Street,Sheung Wan,HongKong

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name : Professional amplifier
Sample Model : QE-100
Additional model : See attached page
Sample Received Date : Mar.14, 2023
Testing Period : Mar.16, 2023 To Mar.29, 2023
Test Requested : Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).

Signed for and on behalf of


Richard Approved Signatory

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Dongguan BST Testing Co., Ltd.

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Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Sample Description:

No.	Description
1	Electrolytic Capacitor
2	Cable
3	Line Input Port 1
4	Line Input Port 2
5	Coil
6	Capacitor
7	Terminal
8	Resistance 1
9	Plastic Sleeve
10	PCB
11	Fan
12	Heat Sink 1
13	Resistance 2
14	Electrolytic Capacitor 2
15	Black Flat Cable
16	Triode
17	Heat Sink 2
18	Pilot Lamp
19	Sponge Pad
20	Casing
21	Transformer
22	Plug
23	Wire Mesh

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Test Results:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	N.D.	--
PBDEs	N.D.	N.D.	--	N.D.	--
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	N.D.	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	N.D.	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	N.D.	--
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	--	N.D.	N.D.
PBDEs	--	N.D.	--	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	--	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	--	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	--	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	--	N.D.	N.D.

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Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	--	N.D.	--	N.D.
PBDEs	N.D.	--	N.D.	--	N.D.
Dibutyl Phthalate (DBP)	N.D.	--	N.D.	--	N.D.
Butyl benzyl phthalate (BBP)	N.D.	--	N.D.	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	--	N.D.	--	N.D.
Diisobutyl phthalate (DIBP)	N.D.	--	N.D.	--	N.D.
Test Item(s)	No.16	No.17	No.18	No.19	No.20
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	N.D.	--
PBDEs	--	N.D.	N.D.	N.D.	--
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	N.D.	--
Butyl benzyl phthalate (BBP)	--	N.D.	N.D.	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	N.D.	--
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	N.D.	--

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Test Item(s)	No.21	No.22	No.23
Cadmium (Cd)	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.
PBBs	--	--	N.D.
PBDEs	--	--	N.D.
Dibutyl Phthalate (DBP)	--	--	N.D.
Butyl benzyl phthalate (BBP)	--	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	N.D.
Diisobutyl phthalate (DIBP)	--	--	N.D.

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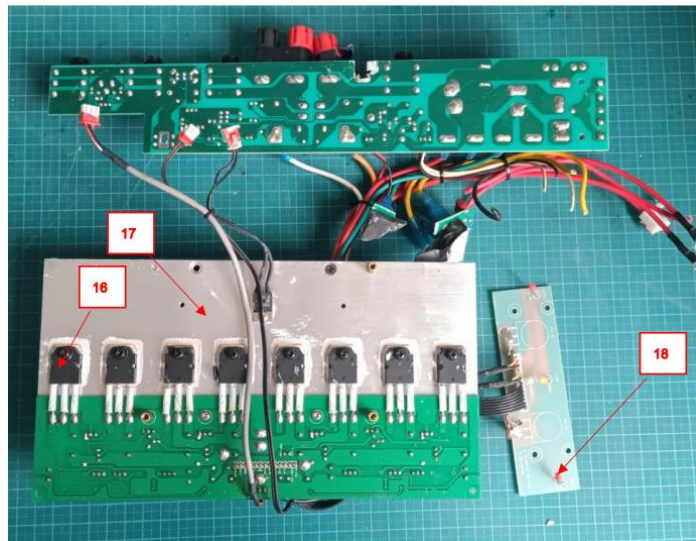
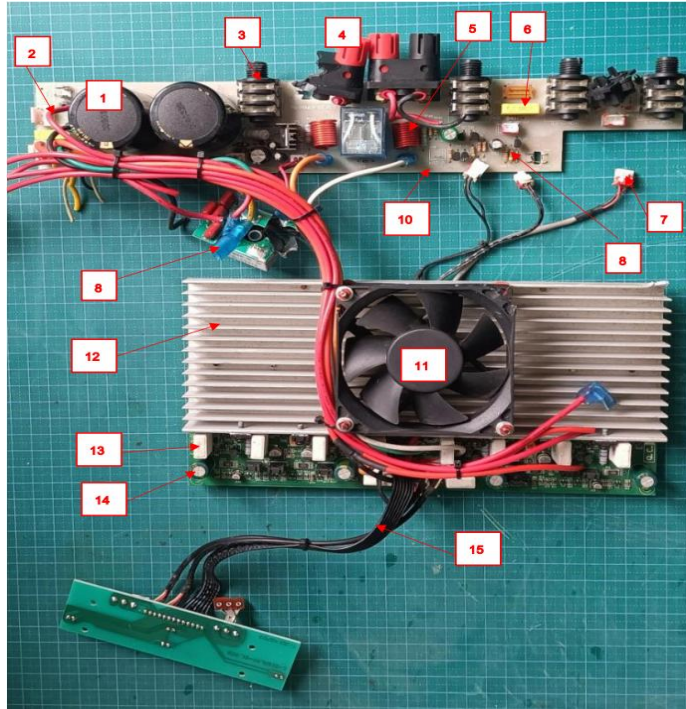


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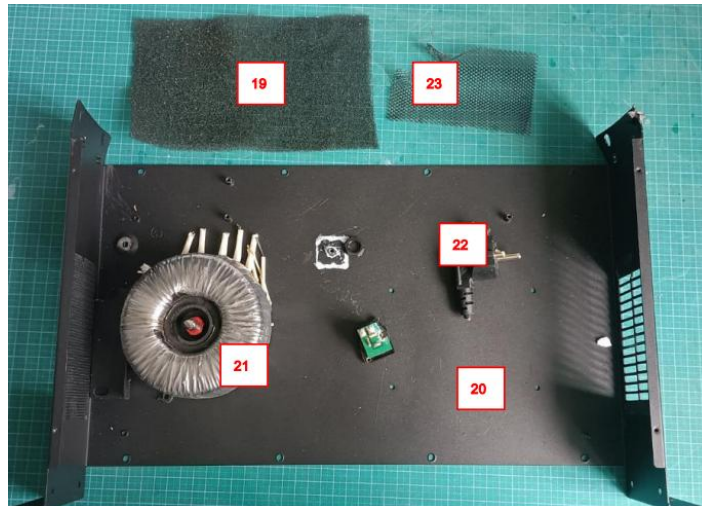


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- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing
 5. when Cr(VI) in a sample is detected below the $0.10 \mu\text{g}/\text{cm}^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above $0.13 \mu\text{g}/\text{cm}^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. 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.

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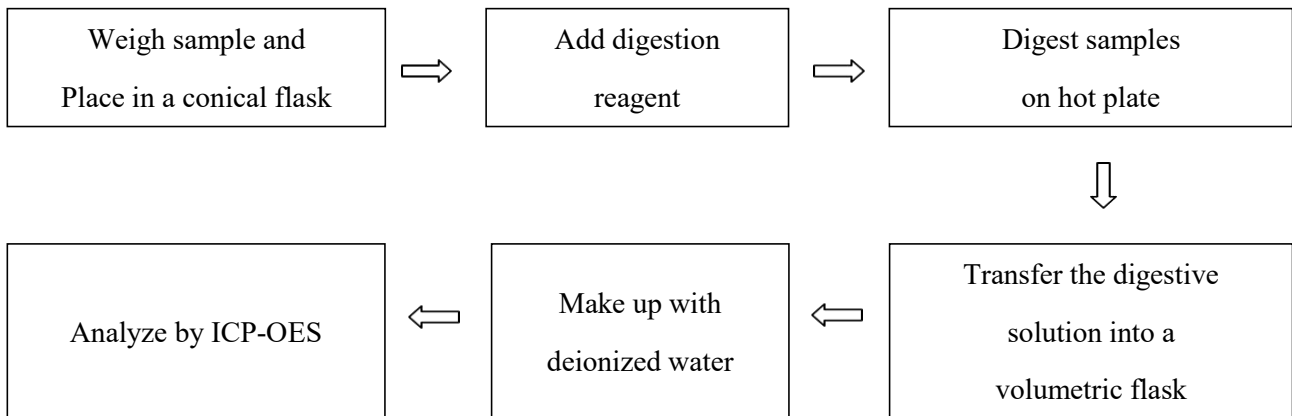
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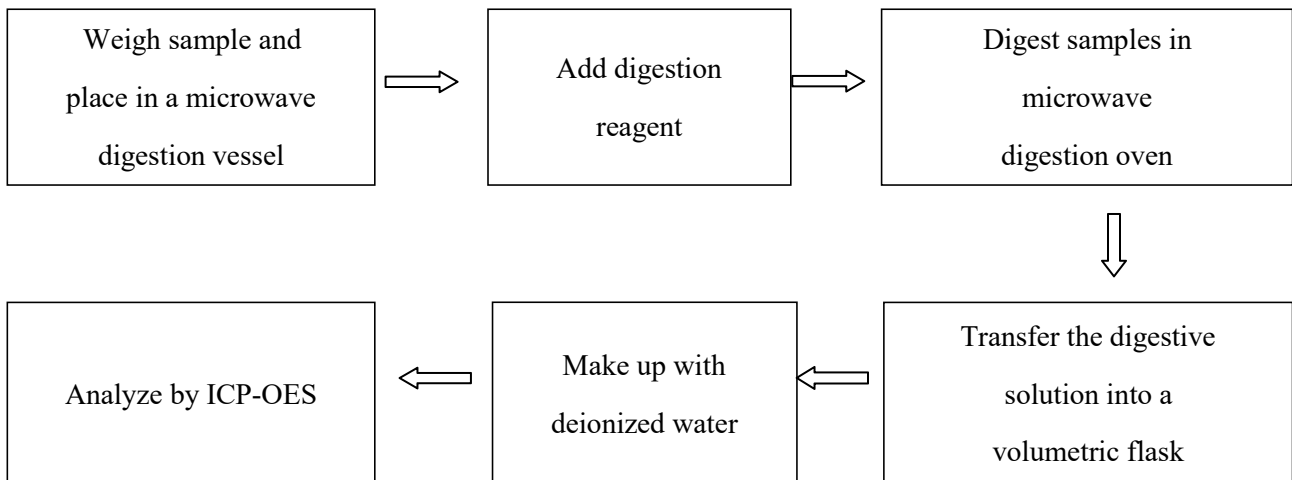
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Test Process:

1. Test for Cd/Pb Content



2. Test for Hg Content



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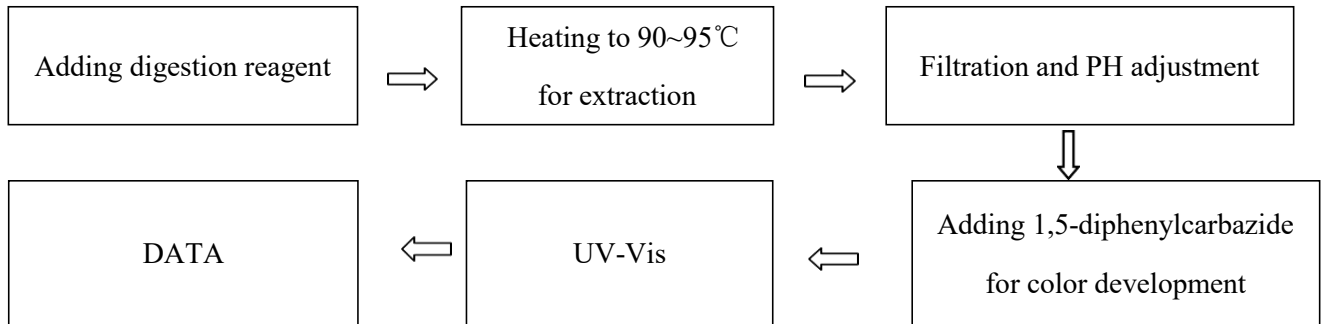
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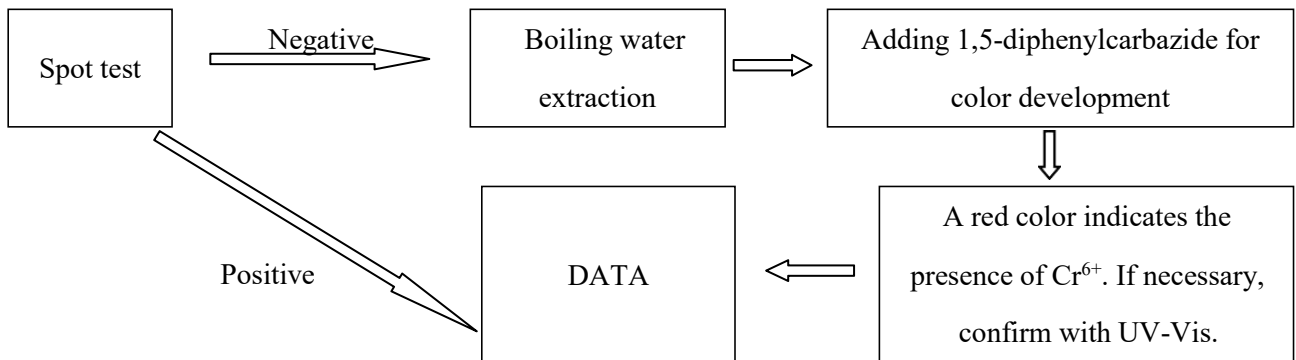
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3. Test for Chromium (VI) Content

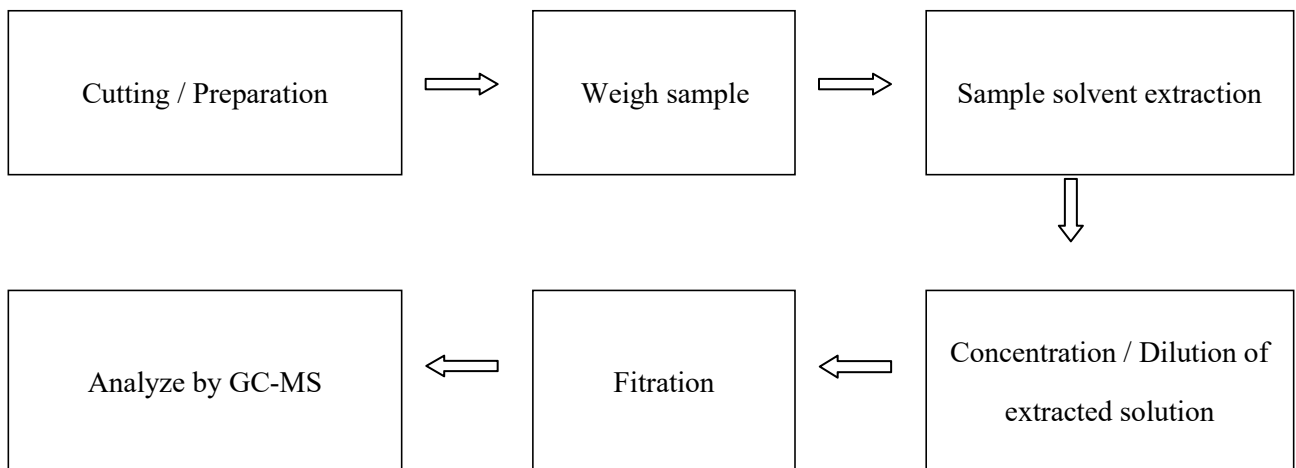
Nonmetal material



Metal material



4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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attached page:

QE-200, QE-300, QE-400, QE-500, QE-600, QE-800, BM-100, BM-200, BM-250, BM-300, BM-400, BM-500, BM-600, BM-800, MQA3100, MQA4100, MQA5100, MQA6100, MQA7100, MQA8100, MQA8150, MQA9100, VXA-800, VXA-1200, VXA-1500, VXA-2000, VXA-3000, PDA-B500, PDA-1000, PDA-1500, PDA-2500, QA3100, QA4100, QA5100, QA6100, QA7100, QA8100, QA8150, QA9100, PL2.10, PL2.9, PL2.8, PL2.7, PL2.6, PL2.5, PL2.4, PL2.35, PL4.10, PL4.8, PL4.6, PL4.50, PL4.40, PL4.35, PL4.30, D1500, D1400, D1300, D1200, D1100, D4.15, D4.14, D4.13, D4.12, D4.11, G-4300, G-4400, G-4500, G-4600, T-4150, T-6150, T-8150, FA-2900, FA-21000, FA-21100, FA-21200, FA-21300, CE-100, CE-200, CE-300, CE-400, CE-500, CE-600, CE-800, RT-100, RT-200, RT-300, RT-400, RT-500, RT-600, RT-800, RM-2100, RM-2200, RM-2300, RM-2400, RM-2500, RM-2600, RM-2800, AM-100, AM-200, AM-300, AM-400, AM-500, AM-600, AM-800, OO-2100, OO-2200, OO-2300, OO-2400, OO-2500, OO-2600, OO-2800, HK-1000, HK-2000, HK-3000, HK-4000, HK-5000, HK-6000, HK-8000, HL-2060, HL-2100, HL-2150, HL-2200, HL-2250, HL-2300, HL-2350, PQ-1000, PQ-2000, PQ-3000, PQ-4000, PQ-5000, PQ-6000, PQ-8000, ONE-100, ONE-200, ONE-300, CH-150, CH-250, CH-350, CH-600, CH-800, CH-1000, CH-1200, CH-1500, CH-1800

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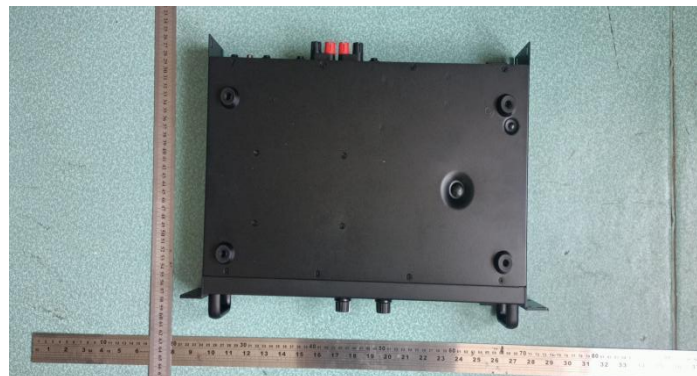
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Sample Photo:



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