

TEST REPORT

REPORT No.: R2BJ190201F6073E

Date: April 1, 2019

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BEIJING EPSOLAR TECHNOLOGY CO.,LTD.
NO.228, BLOCK A, 2ND FLOOR, BLDG 1, NO.3 STREET, SHANGDI XINXI CHANYE JIDI, HAIDIAN DISTRICT,
BEIJING, CHINA

Report on the submitted samples said to be:

Sample Name : Pure Sine Wave Inverter
Tested Style/ Items No.^① : IP2000-41
Additional Styles/ Items No.^② : IP350-12/IP350-22/IP350-11/IP350-21/IP500-12/IP500-22/IP500-11/IP500-21/IP1000-12/IP1000-22/IP1000-11/IP1000-21/IP1500-12/IP1500-22/IP1500-11/IP1500-21/IP2000-22/IP2000-42/IP2000-21/IP2000-41
Sample Receiving Date : February 1, 2019
Testing Period : From February 1, 2019 to April 1, 2019
Results : Please refer to next page(s).
Remark : ①The tested Style/ Item No. is tested by the lab. ②The Additional Styles/ Items No. declared in the applicant's declaration are not tested, their materials are the same as the tested parts and the result of the test report is only responsible for the test sample.

Summary of Test Results:

TEST REQUEST

CONCLUSION

A RoHS Directive 2011/65/EU and its amendment directives

XRF screening test and Wet Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content)

Pass

Phthalates(DBP、BBP、DEHP、DIBP)content

Pass

Signed for and on behalf of BACL

Checked by:

Jane Xu

Technical Supervisor

Approved by:

Bensen

Bensen Huang
Laboratory Manager

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Results:

A. RoHS Directive 2011/65/EU and its amendment directives

XRF screening test

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1*	Black plastic(fixer, accessory)	BL	BL	BL	BL	IN
2	Silvery metal(plate, accessory)	BL	BL	BL	BL	---
3	White adhesive plastic with black printing(label, Inverter)	BL	BL	BL	BL	BL
4	White adhesive paper with blue printing(label, Inverter)	BL	BL	BL	BL	BL
5	Silvery metal(screw, bottom, Inverter)	BL	BL	BL	BL	---
6*	Silvery metal(nut, bottom, Inverter)	BL	BL	BL	IN	---
7	Silvery metal(shell, Inverter)	BL	BL	BL	BL	---
8	Cyan/silvery metal(nut, bottom, Inverter)	BL	BL	BL	BL	---
9	Blue adhesive plastic with white printing(logo, front, Inverter)	BL	BL	BL	BL	BL
10	White plastic(cable tie, Inverter)	BL	BL	BL	BL	BL
11	Silvery metal with black coating(side shell, Inverter)	BL	BL	BL	BL	---
12	Silvery metal with black coating(screw, side shell, Inverter)	BL	BL	BL	BL	---
13*	Silvery metal with black coating(ring, screw, side shell)	BL	BL	BL	IN	---
14*	Silvery metal with black coating(gasket, screw, side shell)	BL	BL	BL	IN	---
15	Black plastic with white printing(key, power switch, Inverter)	BL	BL	BL	BL	BL
16	Black plastic(shell, power switch, Inverter)	BL	BL	BL	BL	BL
17	Silvery metal(tube, power switch, Inverter)	BL	BL	BL	BL	---
18	Dull silvery metal(spring, power switch, Inverter)	BL	BL	BL	BL	---
19	Golden metal with silvery plating(connector, power switch, Inverter)	BL	BL	BL	BL	---
20	Coppery metal with silvery plating(contact, connector, power switch)	BL	BL	BL	BL	---
21	Silvery solder(connector, power switch, Inverter)	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
22	Red soft plastic(wire jacket, power switch, Inverter)	BL	BL	BL	BL	BL
23	Red soft plastic with black coating(wire jacket, power switch, Inverter)	BL	BL	BL	BL	BL
24	Coppery metal(wire, power switch, Inverter)	BL	BL	BL	BL	---
25	Black soft plastic(sleeve, wire, power switch)	BL	BL	BL	BL	BL
26	White plastic(terminal holder, wire, power switch)	BL	BL	BL	BL	BL
27	Silvery metal(terminal, wire, power switch)	BL	BL	BL	BL	---
28	Black plastic(shell, socket"AC OUTPUT", Inverter)	BL	BL	BL	BL	BL
29	Black soft plastic(base, socket"AC OUTPUT", Inverter)	BL	BL	BL	BL	BL
30	Golden metal with silvery plating(connector, socket"AC OUTPUT", Inverter)	BL	BL	BL	BL	---
31	Silvery metal(screw, socket"AC OUTPUT", Inverter)	BL	BL	BL	BL	---
32* ¹	Golden metal(nut, socket"AC OUTPUT", Inverter)	OL	BL	BL	BL	---
33	Silvery metal(nut fixer, socket"AC OUTPUT", Inverter)	BL	BL	BL	BL	---
34	Red soft plastic with black printing(wire jacket, socket"AC OUTPUT", Inverter)	BL	BL	BL	BL	BL
35	Yellow/green soft plastic(wire jacket, socket"AC OUTPUT", Inverter)	BL	BL	BL	BL	BL
36	Coppery metal with silvery plating(wire, socket"AC OUTPUT", Inverter)	BL	BL	BL	BL	---
37	Yellow plastic(sleeve, wire, socket"AC OUTPUT")	BL	BL	BL	BL	BL
38	Blue plastic(sleeve, wire, socket"AC OUTPUT")	BL	BL	BL	BL	BL
39	Golden metal with silvery plating(terminal, wire, socket"AC OUTPUT")	BL	BL	BL	BL	---
40	Silvery solder(terminal, wire, socket"AC OUTPUT")	BL	BL	BL	BL	---
41	Silvery metal(screw, PCB"IP-FZB-V1.11", Inverter)	BL	BL	BL	BL	---
42	White plastic with blue printing(wire jacket, PCB"IP-FZB-V1.11")	BL	BL	BL	BL	BL
43	Coppery metal with silvery plating(wire, PCB"IP-FZB-V1.11")	BL	BL	BL	BL	---
44	White plastic(terminal holder, wire, PCB"IP-FZB-V1.11")	BL	BL	BL	BL	BL
45	Silvery metal(terminal, wire, PCB"IP-FZB-V1.11")	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
46	White plastic(pin holder, socket"J2", PCB"IP-FZB-V1.11")	BL	BL	BL	BL	BL
47	Silvery metal(pin, socket"J2", PCB"IP-FZB-V1.11")	BL	BL	BL	BL	---
48*	Red plastic(shell, switch"S1", PCB"IP-FZB-V1.11")	BL	BL	BL	BL	IN
49	White plastic(key, switch"S1", PCB"IP-FZB-V1.11")	BL	BL	BL	BL	BL
50*	Black plastic(pin holder, switch"S1", PCB"IP-FZB-V1.11")	BL	BL	BL	BL	IN
51	Silvery metal(pin, switch"S1", PCB"IP-FZB-V1.11")	BL	BL	BL	BL	---
52*	Green PCB(PCB"IP-FZB-V1.11")	BL	BL	BL	BL	IN
53	Silvery solder(PCB"IP-FZB-V1.11")	BL	BL	BL	BL	---
54*	Silvery metal with black coating(screw, fan)	BL	BL	BL	IN	---
55*	Black plastic(frame, fan)	BL	BL	BL	BL	IN
56*	Black plastic(blade, fan)	BL	BL	BL	BL	IN
57	Red soft plastic(wire jacket, fan)	BL	BL	BL	BL	BL
58	Black soft plastic(wire jacket, fan)	BL	BL	BL	BL	BL
59	Coppery metal with silvery plating(wire, fan)	BL	BL	BL	BL	---
60	White plastic(terminal holder, wire, fan)	BL	BL	BL	BL	BL
61	Silvery metal(terminal, wire, fan)	BL	BL	BL	BL	---
62	White plastic with black/green printing(label, fan)	BL	BL	BL	BL	BL
63*	Silvery metal(shaft, motor, fan)	BL	BL	BL	IN	---
64*	Silvery metal(magnet housing, motor, fan)	BL	BL	BL	IN	---
65	Dull grey magnet(core, motor, fan)	BL	BL	BL	BL	BL
66	Silvery metal(bearing, motor, fan)	BL	BL	BL	BL	---
67	White plastic(gasket, motor, fan)	BL	BL	BL	BL	BL
68	Silvery metal(spring, motor, fan)	BL	BL	BL	BL	---
69	Silvery metal with black coating(shaft fixer, motor, fan)	BL	BL	BL	BL	---
70	Coppery metal(coil, motor)	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
71	Silvery metal(plate, motor)	BL	BL	BL	BL	---
72*	Black plastic(insulator, motor)	BL	BL	BL	BL	IN
73	Black plastic with white printing(sleeve, capacitor"C1", PCB"YM60A-3", fan)	BL	BL	BL	BL	BL
74	Silvery metal(shell, capacitor"C1")	BL	BL	BL	BL	---
75	Black rubber(base, capacitor"C1")	BL	BL	BL	BL	BL
76	Transparent soft plastic(film, capacitor"C1")	BL	BL	BL	BL	BL
77	Brown paper with liquid(film, capacitor"C1")	BL	BL	BL	BL	BL
78	Silvery metal(foil, capacitor"C1")	BL	BL	BL	BL	---
79	Dull silvery metal(foil, capacitor"C1")	BL	BL	BL	BL	---
80	Silvery metal(connector, capacitor"C1")	BL	BL	BL	BL	---
81	Silvery metal(pin, capacitor"C1")	BL	BL	BL	BL	---
82	Black body(IC"U2", PCB"YM60A-3", fan)	BL	BL	BL	BL	BL
83	Black body(diode"D1", PCB"YM60A-3", fan)	BL	BL	BL	BL	BL
84	Black body(triode"Q2", PCB"YM60A-3", fan)	BL	BL	BL	BL	BL
85	Brown body(capacitor"C5", PCB"YM60A-3", fan)	BL	BL	BL	BL	BL
86	Black body with white printing(resistor"R3", PCB"YM60A-3", fan)	BL	BL	BL	BL	BL
87*	Navy PCB(PCB"YM60A-3", fan)	BL	BL	BL	BL	IN
88	Silvery solder(PCB"YM60A-3", fan)	BL	BL	BL	BL	---
89*	Black plastic(shell, socket"DC INPUT", Inverter)	BL	BL	BL	BL	IN
90*	Red plastic(shell, socket"DC INPUT", Inverter)	BL	BL	BL	BL	IN
91*	Black plastic(nut, socket"DC INPUT", Inverter)	BL	BL	BL	BL	IN
92*	Red plastic(nut, socket"DC INPUT", Inverter)	BL	BL	BL	BL	IN
93*	Silvery metal(nut, socket"DC INPUT", Inverter)	BL	BL	BL	IN	---
94	Silvery metal(gasket, socket"DC INPUT", Inverter)	BL	BL	BL	BL	---
95	Silvery metal(ring, socket"DC INPUT", Inverter)	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
96* ¹	Golden metal(nut, socket"DC INPUT", Inverter)	OL	BL	BL	BL	---
97	Golden metal(plate, socket"DC INPUT", Inverter)	BL	BL	BL	BL	---
98	Silvery metal(screw, socket"DC INPUT", Inverter)	BL	BL	BL	BL	---
99	Coppery metal(plate, socket"DC INPUT", Inverter)	BL	BL	BL	BL	---
100	Silvery metal(nut, plate, socket"DC INPUT")	BL	BL	BL	BL	---
101	Silvery metal(screw, plate, socket"DC INPUT")	BL	BL	BL	BL	---
102	Silvery metal(gasket, screw, plate)	BL	BL	BL	BL	---
103	Silvery metal(ring, screw, plate)	BL	BL	BL	BL	---
104	Silvery metal(gear nut, screw, plate)	BL	BL	BL	BL	---
105*	Cyan/silvery metal(screw, side shell, Inverter)	BL	BL	BL	IN	---
106	Red plastic(nut holder, connector, side shell)	BL	BL	BL	BL	BL
107* ¹	Golden metal(nut, connector, side shell)	OL	BL	BL	BL	---
108	Silvery metal(radiator, PCB"IP2000-PB-V1.01", Inverter)	BL	BL	BL	BL	---
109	Green soft silicone(radiator, PCB"IP2000-PB-V1.01", Inverter)	BL	BL	BL	BL	BL
110	Pink soft silicone(radiator, PCB"IP2000-PB-V1.01", Inverter)	BL	BL	BL	BL	BL
111	Silvery metal(long screw, radiator, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
112	Multicolor metal(nut, radiator, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
113	Black body(temperature sensor, radiator, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
114	Golden metal with silvery plating(terminal, temperature sensor, radiator)	BL	BL	BL	BL	---
115	Black soft plastic(sleeve, temperature sensor, radiator)	BL	BL	BL	BL	BL
116	Black soft plastic(wire jacket, temperature sensor, radiator)	BL	BL	BL	BL	BL
117	Coppery metal with silvery plating(wire, temperature sensor, radiator)	BL	BL	BL	BL	---
118	White plastic(terminal holder, wire, temperature sensor)	BL	BL	BL	BL	BL
119	Silvery metal(terminal, wire, temperature sensor)	BL	BL	BL	BL	---

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		Pb	Cd	Hg	Cr	Br
120	Black soft plastic with white printing(wire jacket, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
121	Red soft plastic with black printing(wire jacket, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
122	Coppery metal with silvery plating(wire, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
123	Coppery metal with silvery plating(terminal, wire, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
124	Black soft plastic with white printing(sleeve, wire, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
125	Red soft plastic with black printing(sleeve, wire, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
126	Black body(triode"Q1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
127	Black body(triode"Q17", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
128	Blue body(capacitor"C92", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
129*	Blue plastic with black printing(shell, EC"T200", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	IN
130*	Black plastic(frame, EC" T200", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	IN
131	Black glue(sealing, EC" T200", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
132	Transparent adhesive plastic(tape, EC" T200", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
133*	White plastic(bobbin, EC" T200", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	IN
134	Coppery metal(coil, EC" T200", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
135	Silvery magnet(core, EC" T200", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
136	Grey body(capacitor"C15", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
137	Grey body(capacitor"C77", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
138	White soft glue(cover, PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
139	Transparent adhesive plastic(tape, inductor"L1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
140	White adhesive plastic with black printing(label, inductor"L1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
141	Coppery metal(coil, inductor"L1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---

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		Pb	Cd	Hg	Cr	Br
142	Black magnet(core, inductor"L1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
143	Yellow plastic(sheet, inductor"L1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
144	Brown plastic with white printing(sleeve, capacitor"C30", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
145	Blue plastic with white printing(sleeve, capacitor"C19", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
146	Black plastic with white printing(sleeve, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
147	Silvery metal(shell, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
148	Black rubber(base, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
149	Transparent soft plastic(film, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
150	Brown paper with liquid(film, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
151	Silvery metal(foil, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
152	Dull silvery metal(foil, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
153	Silvery metal(connector, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
154	Silvery metal(pin, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
155	Black plastic(sheet, capacitor"C69", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
156	Yellow adhesive plastic(tape, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
157	Transparent adhesive plastic with black printing(label, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
158	White adhesive paper with blue printing(label, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
159	Silvery metal(plate, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
160	Black magnet(core, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
161	Black plastic(bobbin, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
162	Coppery metal(coil, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
163	Coppery metal(foil, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
164	Silvery solder(foil, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---

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		Pb	Cd	Hg	Cr	Br
165	Transparent soft plastic(sleeve, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
166	Coppery metal with silvery plating(connector, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
167	White adhesive paper(tape, transformer"T4", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
168	Black plastic(shell, buzzer"BZ1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
169	Black magnet(core, buzzer"BZ1")	BL	BL	BL	BL	BL
170	Black plastic(sealing, buzzer"BZ1")	BL	BL	BL	BL	BL
171	Silvery metal(foil, buzzer"BZ1")	BL	BL	BL	BL	---
172	Lt silvery metal(foil, buzzer"BZ1")	BL	BL	BL	BL	---
173	Coppery metal(coil, buzzer"BZ1")	BL	BL	BL	BL	---
174	Silvery metal(bobbin, buzzer"BZ1")	BL	BL	BL	BL	---
175	Black body(triode, micro PCB, buzzer"BZ1")	BL	BL	BL	BL	BL
176	Black body with white printing(resistor, micro PCB, buzzer"BZ1")	BL	BL	BL	BL	BL
177*	Green PCB(micro PCB, buzzer"BZ1")	BL	BL	BL	BL	IN
178	Silvery solder(micro PCB, buzzer"BZ1")	BL	BL	BL	BL	---
179*	Black body(transformer"T3", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	IN
180	Coffee soft plastic(wire jacket, transformer"T3", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
181	Coppery metal with silvery plating(wire, transformer"T3", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
182	Yellow adhesive plastic(tape, transformer"T7", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
183	Transparent adhesive plastic with black printing(label, transformer"T7", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
184	Black magnet(core, transformer"T7", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
185	Black plastic(bobbin, transformer"T7", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
186	Coppery metal(coil, transformer"T7", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
187	Blue body(fuse"F10", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
188	Blue body with multicolor printing(resistor"R61", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
189	White plastic(pin holder, socket"J2", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
190	Silvery metal(pin, socket"J2", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
191	Red body(LED"L_RED", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
192	Green body(LED"L_GREEN", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
193*	Black plastic(pin holder, socket"J7", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	IN
194	Golden metal with silvery plating(pin, socket"J7", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---
195	White body(IC"U1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
196	Black body(diode"D3", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
197	Black body(triode"Q16", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
198	Brown body(capacitor"C12", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
199	Black body with white printing(resistor"R91", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
200	Transparent body(LED"D5", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
201	Black body(IC"U12", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
202	Black body(EC"Z3", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
203	Silvery body(crystal"Y1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
204	Black plastic(base, crystal"Y1", PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	BL
205*	Green PCB(PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	IN
206	Silvery solder(PCB"IP2000-PB-V1.01")	BL	BL	BL	BL	---

- The test results of samples (107), (112), (178) are shown retest result, and the retest samples were provided by client on March 21, 2019.

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Remark:

(1)

--- = Not Conducted

* Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$LOD < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	---	$BL \leq 250 - 3\sigma < X$

BL = Below Limit

OL = Over Limit

IN = Inconclusive

LOD = Limit of Detection

*1 = As claimed by the material declaration submitted by the client, the materials of the sample No. 32、96、107 are copper alloy. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

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(2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(3) The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium(Cd)	100
Lead(Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominate ddiphenylethers (PBDEs)	1000

(4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.

(5) Photo appendix is included.

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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Wet Chemical Testing:

Test method:

Lead Content:

With reference to IEC62321-5:2013, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS).

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Pb

Item	Unit	MDL	Results		
			32	96	107
Lead (Pb) Content	mg/kg	10	14210	22551	27090

2) The test results of Cr (VI)

Item	Unit	MDL	Results				Limit
			6	13	14	54	
Hexavalent Chromium (Cr(VI))	µg/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	**
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results				Limit
			63	64	93	105	
Hexavalent Chromium (Cr(VI))	µg/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	**
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- The test result of sample (107) is shown retest result, and the retest sample was provided by client on March 21, 2019.
- ** =
 - a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive -unavoidable coating variations may influence the determination

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

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3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results				Limit
			1	48	50	52	
Polybrominated Biphenyls							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results					Limit
			55	56	72	87	89	
Polybrominated Biphenyls								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results					Limit
			90	91	92	129	130	
Polybrominated Biphenyls								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results					Limit
			133	177	179	193	205	
Polybrominated Biphenyls								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- mg/kg = ppm
- Photo is included.

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Phthalates(DBP、BBP、DEHP、DIBP)content

Test method: With reference to IEC 62321-8:2017, by gas chromatographic-mass spectrometer (GC-MS)

Item	Unit	MDL	Results			Limit
			1+15+16	3+9+167	4+65+67	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	0.010	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			10+118+138	22+23	25+115+116	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

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Item	Unit	MDL	Results			Limit
			26+44+46	28+29+55	34+35	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			37+38+48	42+57+58	49+60+133	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	0.009	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

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Item	Unit	MDL	Results			Limit
			50	52+87+205	56	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			62+143+189	72+89+91	73+75+76	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

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Item	Unit	MDL	Results				Limit
			77+82+83	84+85+86	90+92+106	109+110	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			113+126+127	120+130+131	121+124+125	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

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Item	Unit	MDL	Results			Limit
			128+132+135	129+180	136+137+139	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			140+142+144	145+149+150	146+156	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

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Item	Unit	MDL	Results			Limit
			148+165	155+161+168	157+158+160	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			169+175+176	170+177+193	179+182+183	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

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Item	Unit	MDL	Results			Limit
			184+185+187	188+191+192	195+196+197	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			198+199+200	201+202	203+204	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

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Photograph of Sample



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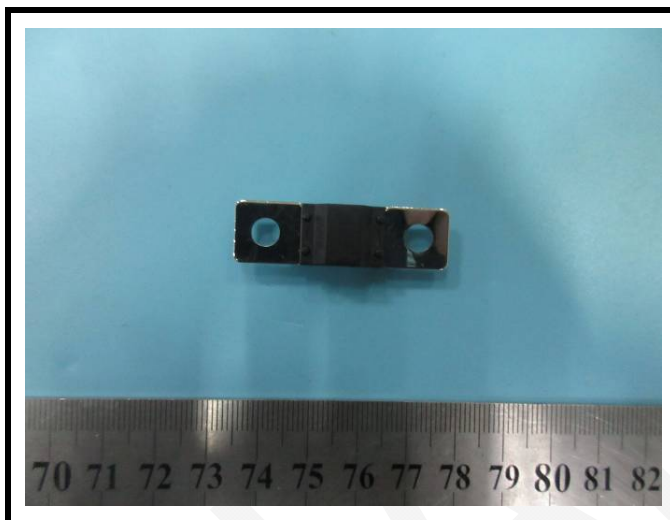
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