TEST REPORT

Report No.: SZ2231201-71947E Date: December 22, 2023

SDAPO Communication Co.,Ltd.
3F,Building5,Zone A, No.2, Yanhe Road,Xinsheng District,Longgang Street,Shenzhen,China

Report on the submitted samples said to be:

Sample Name:	POE 网卡
Color:	Black
Brand:	SDAPO
Manufacturer:	SDAPO Communication Co.,Ltd
Supplier:	SDAPO Communication Co.,Ltd
Tested Style/Item No.:	P2C5V
Additional Style/ Item No.:	PD2CAT ，PD2CAT-20V，PD2CBT-20V，GP2C5V，GPD2CAT-20V，GPD2CBT-20V
Remark:	As claimed by the material declaration submitted by the client, the material of Additional Style/ Item No. are the same as the tested Style/ Item No. . But the results only for the tested sample. And the applicant will undertake all differences and risk.
Sample Receiving Date:	December 01,2023
Testing Period:	December 01,2023 - December 13,2023
Result:	**Please refer to next page(s).**

Signed for and on behalf of

BACL

Checked by: Queenie Lee

Approved by: Len Xie

TEST REPORT

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Summary of Test Result:

TEST REQUEST	**CONCLUSION**
A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead,Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates(DBP, BBP,DEHP, DIBP) content	
A.1 XRF screening test	Pass
A.2 Wet Chemical Testing	
A.2.1 Chromium VI (Cr(VI)) Content	Pass
A.2.2 PBBs & PBDEs content	Pass
A.3 Phthalates(DBP, BBP, DEHP, DIBP)content	Pass

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A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead,Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates(DBP, BBP,DEHP, DIBP) content

A.1 XRF screening test

Test method: IEC 62321-3-1:2013

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(1)	Black PVC(cover, type-C plug, driver)	BL	BL	BL	BL	BL
(2)*	Silvery metal(cover, type-C plug, driver)	BL	BL	BL	X	---
(3)	Gray plastic(shell, type-C plug, driver)	BL	BL	BL	BL	BL
(4)	Black plastic(pin holder, type-C plug, driver)	BL	BL	BL	BL	BL
(5)	Silvery metal(clip, type-C plug, driver)	BL	BL	BL	BL	---
(6)	Silvery metal(pin, type-C plug, driver)	BL	BL	BL	BL	---
(7)	Black body(SMD resistor, PCB, type-C plug, driver)	BL	BL	BL	BL	BL
(8)	Brown body(SMD capacitor, PCB, type-C plug, driver)	BL	BL	BL	BL	BL
(9)*	White printed black coated beige plastic with coppery metal(PCB, type-C plug, driver)	BL	BL	BL	BL	X
(10)	Silvery solder(PCB, type-C plug, driver)	BL	BL	BL	BL	---
(11)	Black PVC(wire holder, connecting line, driver)	BL	BL	BL	BL	BL
(12)	Black PVC(wire jacket, connecting line, driver)	BL	BL	BL	BL	BL
(13)	White PVC(inner wire jacket, connecting line, driver)	BL	BL	BL	BL	BL
(14)	Black PVC(inner wire jacket, connecting line, driver)	BL	BL	BL	BL	BL
(15)	Blue PVC(inner wire jacket, connecting line, driver)	BL	BL	BL	BL	BL
(16)	Red PVC(inner wire jacket, connecting line, driver)	BL	BL	BL	BL	BL
(17)	Green PVC(inner wire jacket, connecting line, driver)	BL	BL	BL	BL	BL
(18)	Coppery metal(inner wire, connecting line, driver)	BL	BL	BL	BL	---
(19)	Black printed silvery plastic with adhesive(label, driver)	BL	BL	BL	BL	BL
(20)	Blue printed white paper with adhesive(label, driver)	BL	BL	BL	BL	BL
(21)*	Black plastic(shell, driver)	BL	BL	BL	BL	X
(22)	Black plastic(shell, connect, small PCB, driver)	BL	BL	BL	BL	BL
(23)	Silvery metal(pin, connect, small PCB, driver)	BL	BL	BL	BL	---
(24)	Gray magnet(shell, inductor, small PCB, driver)	BL	BL	BL	BL	BL
(25)	Yellow clear plastic with adhesive(sticker, inductor, small PCB, driver)	BL	BL	BL	BL	BL
(26)	Black plastic(frame, inductor, small PCB, driver)	BL	BL	BL	BL	BL
(27)	Coppery metal(coil, inductor, small PCB, driver)	BL	BL	BL	BL	---

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(28)	Silvery metal(pin, inductor, small PCB, driver)	BL	BL	BL	BL	---
(29)	Black body(big IC, small PCB, driver)	BL	BL	BL	BL	BL
(30)	Black body(middle IC, small PCB, driver)	BL	BL	BL	BL	BL
(31)	Black body(small IC, small PCB, driver)	BL	BL	BL	BL	BL
(32)	Black body(SMD bridge rectifier, small PCB, driver)	BL	BL	BL	BL	BL
(33)	Black body(big SMD diode, small PCB, driver)	BL	BL	BL	BL	BL
(34)	Black body(middle SMD diode, small PCB, driver)	BL	BL	BL	BL	BL
(35)	Black body(small SMD diode, small PCB, driver)	BL	BL	BL	BL	BL
(36)	Black body(SMD triode, small PCB, driver)	BL	BL	BL	BL	BL
(37)	Black body(SMD inductor, small PCB, driver)	BL	BL	BL	BL	BL
(38)	Black/white body(big SMD resistor, small PCB, driver)	BL	BL	BL	BL	BL
(39)	Black/white body(small SMD resistor, small PCB, driver)	BL	BL	BL	BL	BL
(40)	Brown body(SMD capacitor, small PCB, driver)	BL	BL	BL	BL	BL
(41)*	White printed black coated beige plastic with coppery metal(small PCB, driver)	BL	BL	BL	BL	X
(42)	Silvery solder(small PCB, driver)	BL	BL	BL	BL	---
(43)	Silvery metal(cover, cable interface, big PCB, driver)	BL	BL	BL	BL	---
(44)	Silvery metal(pin, LED/cable interface, big PCB, driver)	BL	BL	BL	BL	---
(45)*	Black plastic(pin holder, cable interface, big PCB, driver)	BL	BL	BL	BL	X
(46)	Yellow clear body(LED, cable interface, big PCB, driver)	BL	BL	BL	BL	BL
(47)	Green clear body(LED, cable interface, big PCB, driver)	BL	BL	BL	BL	BL
(48)	White printed black plastic(cover, inductor, big PCB, driver)	BL	BL	BL	BL	BL
(49)	Red plated coppery metal(coil, inductor, big PCB, driver)	BL	BL	BL	BL	---
(50)	Black magnet(loop, inductor, big PCB, driver)	BL	BL	BL	BL	BL
(51)	Silvery metal(pin, inductor, big PCB, driver)	BL	BL	BL	BL	---
(52)	Black body(big IC, big PCB, driver)	BL	BL	BL	BL	BL
(53)	Black body(small IC, big PCB, driver)	BL	BL	BL	BL	BL
(54)	Black body(SMD triode, big PCB, driver)	BL	BL	BL	BL	BL
(55)	Silvery body(SMD crystal oscillator, big PCB, driver)	BL	BL	BL	BL	BL
(56)	Black/white body(SMD resistor, big PCB, driver)	BL	BL	BL	BL	BL
(57)	Black body(SMD inductor, big PCB, driver)	BL	BL	BL	BL	BL
(58)	Brown body(SMD capacitor, big PCB, driver)	BL	BL	BL	BL	BL

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(59)*	White printed black coated beige plastic with coppery metal(big PCB, driver)	BL	BL	BL	BL	X
(60)	Silvery solder(big PCB, driver)	BL	BL	BL	BL	---

Note:
--- = Not Applicable.
* = Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

Remark:

i Result 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≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:
BL = Below Limit
OL = Over Limit
IN = Inconclusive (questionable, need further chemical analysis)

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

iii The maximum permissible limit is quoted from the 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
Polybrominated diphenylethers (PBDEs)	1000

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.

A.2 Wet Chemical Testing

A.2.1 Chromium VI (Cr(VI)) Content

Chromium VI (Cr(VI)) Content(In metal)

Test method: IEC 62321-7-1:2015

Item	Unit	MDL	Result	Limit
			(2)	
hexavalent chromium(Cr(VI))	μg/cm²	0.10	N.D.	See Remark
Conclusion	/	/	**Pass**	/

Limit Remark:

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 onsidered 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.

A.2.2 PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	MDL	Result					Limit
			(9)	(21)	(41)	(45)	(59)	
Monobromobiphenyl (MonoBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromobiphenyl(OctaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromobiphenyl(DecaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-

Item	Unit	MDL	Result					Limit
			(9)	(21)	(41)	(45)	(59)	
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	-
sum of MonoBDE,DiBDE,TriBDE,TetraBDE,PentaBDE,HexaBDE,HeptaBDE,OctaBDE,NonaBDE,DecaBDE	mg/kg	-	/	/	/	/	/	1000
sum of MonoBB,DiBB,TriBB,TetraBB,PentaBB,HexaBB,HeptaBB,OctaBB,NonaBB,DecaBB	mg/kg	-	/	/	/	/	/	1000
Conclusion	/	/	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	/

A.3 Phthalates(DBP, BBP, DEHP, DIBP)content

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(1)	(3)+(22)+(26)	(4)	(9)+(41)+(59)	(11)	(12)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	50	N.D.	N.D.	N.D.	48	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	/

Item	Unit	MDL	Result						Limit
			(13)	(14)	(15)	(16)	(17)	(19)+(20)+(25)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	/

Item	Unit	MDL	Result						Limit
			(21)+(45)+(48)	(29)+(30)+(31)	(32)+(33)+(34)	(35)+(36)+(46)	(47)+(52)+(53)	(54)+(55)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	53	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	/

Note:
- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- "+" = Composite testing.
-The Result less than MDL are not taken into account while calculating the sum contents.

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Photograph of Sample



BACL authenticate the photo on original report only

Statement:

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2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
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5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
6.The test samples were in good condition before testing.

*** End of Report ***