

中国认可 国际互认 检测 TESTING **CNAS L6478**



TEST REPORT

Reference No.	: WTS18F09124221A2C
Applicant	
Address	: sh
Manufacturer	and the second
Address	1 th
Sample Name	: Power bank
Model No.	: T14 John Martin Mar
Test Requested	: In accordance with the RoHS Directive 2011/65/EU
Test Method	: 1) With reference to IEC 62321-2:2013, disassembly, disjointment and mechanical sample preparation
	 With reference to IEC 62321-3-1:2013, screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
	3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES
	4) With reference to IEC 62321-5:2013, determination of Lead and Cadmium by ICP-OES
	5) With reference to IEC 62321-7-2:2017 and IEC 62321-7-1:2015, determination of Hexavalent Chromium by UV-Vis
	6) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
Test Conclusion	: Based on the performed tests on the submitted samples, the results comply with the RoHS Directive 2011/65/EU
Date of Receipt sample	: 2018-09-21 & 2018-10-12 & 2018-10-13
Date of Test	: 2018-09-21 to 2018-10-13
Date of Issue	: 2018-10-22
Test Result	: Please refer to next page (s)
reproduced, except in full, with	report refer only to the sample(s) tested, this test report cannot be nout prior written permission of the company. The report would be invalid nstitute and the signatures of compiler and approver.

Prepared By:

Waltek Services (Foshan) Co., Ltd. Address: No. 13-19, 2/F, 2nd Building, Sunlink International Machinery City, Chencun Town, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398

Fax:+86-757-23811381

Compiled by:

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Humour.Wu / Project Engineer

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Approved by:

Dino.Zhang / Lab Manager

Zhang

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Reference No.: WTS18F09124221A2C



Part No.	Part Description	Result of XRF		Result of Wet Chemical Testing (mg/kg)	Conclusion on RoHS
.t	ret fet utet alle all	Cd	BL		t
	MULT MAL MAR AN AN	Pb	BL	et allet mile white	white we
1	Silvery-blue metal shell	Hg	BL	NA	Comply
	LITE WALT WALL WALL WALL	Cr	BL	set set set	NUTER MALT
		Br	BL	With more mer of	1. 24.
3	et with white white where w	Cd	BL	at at let	
	-10 - 10 - 1 - 1 - 1 - 1	Pb	BL	NUC NALL WAL WA	2112
2,0	Black transparent plastic shell	Hg	∽∿ BL ∼	NA	Comply
	water ware with the	Cr 🔶	BL	re- atten atter white	Sompty
	the set of the State of the	Br	M BLM	The Providence	4
56.	mit whit whit whe will	Cd	BL	t tet tet street	INLIE IN
	i i i it it it	Pb	BL	ant was with	20. 2.
3	White glue	Hg	BL	NA A	Comply
	with the state	Cr	BL	oute white when we	- MI
	t fet fet of others	Br when	BL		t it
	where where where we are	Cd	BL	- A MALTE VIALLE VIAL	WILL
	at at a st	Pb	BL		*
4	Black plastic button	Hg	BL	NA NA	Comply
	and the state of t	Cr	BL	WILL MAL MIL	THE L
et.	atter alter with any	Br	BL	at at left	
		Cd	BL	NA	Comply
	Silvery metal screw with black	Pb	BL		
5	plating	Hg	BL		
		Cr Sr	JUBL 3	n w w	e st
<u></u>		Br	BL		
		Cd	BL	r. w. w.	
	Silvery metal shell of Type-C	Pb	BL		JIER IN
6	socket	Hg	BL	NA	Comply
	TEX ITEX NITER MUTE WAY	Cr v	BL	- + A A	At de
الم	NU W	Br	BL	THE LIFE NUT	it with
	A ret ret unet when	Cd	BL	<u>24</u> 24 2	x st
JAN'S	Black plastic core of Type-C	Pb	BL	et the ster street of	NALL
7	socket	Hg	BL	NA NA	Comply
JE	Intite init white white	Cr	BL	at the set set	NUTER
		Br A	BL	in which which which	m. n
	The street with which we	Cd	BL	- it it it	JEX C
		Pb	BL	NITE MALTE MALT	ne ne
8	Silvery metal pin of Type-C socket	Hg	BL	NA	Comply
	white white white the	Cr Br	BL BL	TEX JIEK NITER O	TE NATE

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Part No.	Part Description	Result of XRF		Result of Wet Chemical Testing (mg/kg)	Conclusion on RoHS
A	at the state with a	Cd	M. BL		
	when when we are	Pb	BL	et allet aller white	white wh
9	Chip audion	Hg	BL	NA	Comply
	LIES WALT WALL WALL WALL	Cr	BL	Let jet jet	NUTERINITY
		Br	BL	WILL WILL WALL V	2.
	et alle all and and	Cd	BL	t it it	
	- Mr 20	Pb	BL	NITE WALTE WALT WAL	- Mr.
10	Silvery metal shell of USB socket	Hg	Jun BL J	NA	Comply
	white when when when	Cr 🖈	BL	re- strek when white	white a
	a at at at 5	Br	Mr BLM	IN IN IN	, t
16	all way way we we	Cd	BL /	t set set set	NITE IN
		Pb	BL	ants when when	20. 25
11	White plastic core of USB socket	Hg	BL	NA A	Comply
	when when we	Cr	BL	white white white wh	
	t at set is all	Br w	BL	57 SV S	
JAL .	when when my and	Cd	BL	THE THE NUTE IN	MAL
	at at a set	Pb	BL 🖤	me m m	4
12	Silvery metal pin of USB socket	Hg	BL	NA NA	Comply
	TEX TEX STEX EX ON	Cr	BL	white white white	24. 24.
		Br	BL	L A A	alt is
4	- 14 14 - L	Cd	BL	NITE INTE WALL V	Comply
	at let let le	Pb	BL	PBBs : ND PBDEs : ND	
13	Black plastic cap of switch	Hg	BL		
	s at at at	Cr N	JPBL J		
		Br	IN		
'n		Cd	BL	in the min	2. 1
		Pb	BL		Alt .
14	White plastic base of switch	Hg	BL	PBBs : ND	Comply
	at all all all on	Cr s	BL	PBDEs : ND	at a
	the water water water the	Br	, IN , t	THE LIFE STREET	HITE MALL
		Cd	BL	M. M. W.	
	at outer contra work work	Pb	BL	at let let is	Et aller
15	Silvery metal sheet of switch		BL	NA	Comply
	THE STREE STREET WITH AN	Cr	BL	A A A	- Jet
n-1	sur me in se	st Br st	BL	it with white white	with w
A	at at at at	Cd	N BL	The second second	A
	ner which which where a	Pb	BL /	- JEK JEK NIE	Intit MAL
16	Silvery metal sheet of switch	Hg	BL	NA NA	Comply
	the number into another and	Cr	BL	at at at	JEK JIE
		Br S	BL	in the water water was	- m

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it	Tet Jet Jet Mile Mile	Cd	BL	a at at	At .
	MUT. MUT MIT IN I	Pb	BL	at alter alter white	white wh
17	Silvery metal pin of switch	Hg	BL	NA	Comply
	LITE WALT WALL WALL WALL	Cr	BL	Let JEK JEK	NUTE NUTE
		Br	BL	WILL WILL WILL W	
	et with out wat wat	Cd	BL	at at at	
		Pb	BL	NITE WALT WALT WALT	241-
18	Silvery metal shell of micro-USB socket	Hg	🗸 BL 🖉	NA	Comply
	SUCKET	Cr 🔶	BL	re alter alter white	with m
	at at alt alt is	Br	M BLM	Mr. W. V.	A.
16.	mit white when when the	Cd	BL 🖉	t set set set	NHE ME
	Dark instantiation of the	Pb	BL	Wer and me	20. 20
19	Dark grey plastic core of	Hg	BL	NA NA	Comply
	micro-USB socket	Cr	BL	inter white white wh	it when
*	t set set is alle	Br 🔊	BL		t st
MAL	When when which are	Cd	BL	JA STER WITE SAL	white
		Pb	BL	m. m	4
20	Silvery metal pin of micro-USB	Hg	BL	A NA NA	Comply
	socket	Cr	BL	white white white	24 2
	TEX STER STER	Br	BL	t at at	114 .51
4	- 141 120 - 1	Cd	BL	NUTE INTE MAL V	in m
	at all the unit	Pb	BL		at at
21	Black magnetic core of inductor	Hg	BL	Cr ⁶⁺ : ND	Comply
	A A AT AT	Cr v	NIN 3	1 m m	, A
	a star and a sub-	Br	BL		* NITER I
en.		Cd	BL A	and the shirt	20. 1
		Pb	BL		Alt is
22	Coppery metal winding of inductor	Hg	BL	NA	Comply
	at all felt felt of	Cr s	BL	20 20 1	at a
	the write write write the	Br	, − BL,	TEX JER ALTER A	HIL WALL
	i shat at at	Cd N	BL	Mr. M. M. A.	1
	MITE MITE WALL WALL	Pb	BL		et aller
23	Chip IC	Hg S	BL	PBBs : ND	Comply
	THE THE NUMBER WITH M	Cr	BL	PBDEs : ND	- At
	me me m so	⊳⊱ Br ∠o	N	E INTE INTE MAIL	with wi
A	at let get get w	Cd	BL	20. 20. 1	t .
	NET WITH WITH VINE VI	Pb	J- BL	- THE JEEK JIER	MITE MALT
24	Solder	Hg	BL	NA	Comply
	ter nute inter white white	Cr	BL	at at at	JEK JIEK
	10 10	Br	BL	in the water water wa	M

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it	THE THE STREE OF THE STREET	Cd	M BL	A A	t
NUL	wer and any any any	Pb	BL	at street intres intre	white wh
25	Chip resistor	Hg	BL	NA	Comply
	LIER WALT WALL WALL WAT	Cr	BL	at the set	NUTE INTE
24	A A A A	Br	BL	WE WE WE V	1
-	at alle out wat wat	Cd Cd	BL	at at at	IF THE
MUL	m m	Pb	BL	N' ANT WALL WALL	MIL
26	Chip capacitor	Hg	S BL	NA	Comply
IN11	white when when the	Cr	BL	re- street while white	white w
	at at at at	Br	N BLM	- m. m. m.	d.
JET .	net when when when we	Cd	, BL ,	t set set set	NITE MI
		Pb	*OL	ants white when	24 25
27	Chip resistor	Hg	BL	NA A	Comply
nn	with the state	Cr	BL	inter inter white white	it when
	t at the state	Br w	BL		at at
Inth	when all all an	Cd	BL	THE STREE WITE SOL	MAL
	that a star	Pb	*OL	- m. m. m.	4
28	Chip resistor	Hg	BL	NA	Comply
	sh st st st	Cr	BL		m. n.
Et .	Tet stret street wh	Br	BL		Alt of
12	- W. W.	Cd	BL	NUT INT WALL	in m
L	at let tet the	Pb	BL	NA	at let
29	Solder	Hg	BL		Comply
	a at at at	Cr w	JUBL 3	1 m m m	, st
J.		Br	BL		* NITER I
th.		Cd	BL A	in the shirt	20. 1.
At		Pb	BL		Alt is
30	Chip IC	Hg	BL	PBBs : ND	Comply
S.	at at ret ret of	Cr	BL	PBDEs : ND	1 1
	The way when when you	Br	, IN d+	THE STAR STRAN	HIL WALL
		Cd N	BL	Mr. M. M. A.	
5	nute mit wait wat	Pb	BL		et aller
31	Chip IC	Hg S	BL	PBBs : ND	Comply
At	THE THE MILES WITH A	Cr	BL	PBDEs : ND	- At
Int.	me m m m	J Br A	N N	it with white white	we we
,L	at let get get in	Cd	BL	20. 20.	× .
1 E	Vite wat wat wat	Pb	BL 🖉	- THE THE THE	INLIE MALI
32	Transparent plastic film of nixie	Hg	BL	NA	Comply
	tube	Cr	BL	at at at	STEEL WALTER
m	w w	Br	BL	In The Mathematic Mathematic	

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Part No.	Part Description	Result of XRF		Result of Wet Chemical Testing (mg/kg)	Conclusion on RoHS
at	Alt Alt Alter Alter	Cd	SU BL	the state of the s	it.
	and the second s	Pb	BL 🔨		white wh
33	White plastic shell with black	Hg	BL	PBBs : ND	Comply
	coating of nixie tube	Cr	BL	PBDEs : ND	NUTERINITY
-24	i state de	Br	IN	WILL WALL WALL V	1. Ju.
	et alle alle white white	Cd	BL	at at at	It . It
m	where we are the	Pb 🔨	BL	alle salite salite salite	- Mur
34	Transparent glue of nixie tube	Hg	Sec. BL	PBBs : ND	Comply
NUT	white where where you	Cr 👉	BL	PBDEs : ND	white h
	at at let let	Br	an INan	m. m m	,t
56	NUTE INTE WALL WALL W	Cd	BL 🖉	t at alt alt	NITE IN
~	the state of	Pb	BL	Min white where	n n
35	Black PCB of nixie tube	Hg	BL	PBBs : ND	Comply
JUNY	with the states	Cr	BL	PBDEs : ND	
		Br w	IN		
JUL .	when when she an	Cd	BL	THE THE NUTE ONLY	MAL
	the star of the	Pb	BL	- m. m. m.	4
36	Silvery metal pin of nixie tube	Hg	BL	NA NA	Comply
21	sur sur a st	Cr	BL	white white white	24. 24.
it.	ret uret wret wind	Br	BL	a at at	At 5
h.	the same a	Cd	BL	NUTE INTE MALL S	in m
	at at the the	Pb	BL		at at
37	Green PCB	Hg	BL	PBBs : ND	Comply
20.	s at at at	Cr N	BL 3	PBDEs : ND	
J.F.		Br	IN	t at the set	* JIET
	- 3 3 4 4 4 4 4	Cd	BL	i white white	10. 1
At		Pb	BL	the state	et .
38	Dark green paper	Hg	BL	NA	Comply
L	at let feet state on	Cr 🔊	BL	an an	1 1
	TE WITH WALL WALL W	Br	, − BL,	THE JEEK STREET	HIE MILL
	· · · · · ·	Cd	BL	Mr. M. W. L.	
	A STER MITE WALL WALL	Pb	BL	at the test of	EX LIER
39	Brown transparent plastic	Hg	BL	NA	Comply
At	adhesive tape	Cr	BL		- It
n th	when when when you	Br 👉	BL	IE INTER INTE MALT	with w
1	at the set off	Cd	BL	24. 24.	at .
	NET WALL WALL WALL W	Pb	BL 🖉	- THE THE STREET	INLIE MAL
40	Black sponge	Hg	BL	NA	Comply
F .	TER NUTER INLIE WALL WAL	Cr	BL	at at at	JEK JIE
m	m m m	Br S	BL	Marthan Marthan	- we

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Part No.	Part Description	Result	of XRF	Result of Wet Chemical Testing (mg/kg)	Conclusion on RoHS
jit.	THE THE STREE NUTE AND	Cd	BL BL	a at at	et .
	White show she are	Pb	BL	at atter intre white	white wh
41	Black soft plastic adhesive sheet	Hg	BL	NA	Comply
	LITE WALTE WALL WALL WALL	Cr	BL	wet ster ster.	NUTER MUT
		Br	BL	WILL WILL WILL WILL WILL WILL WILL WILL	
- -	et with out which which .	Cd Cd	BL	at at let	
	-un -un	Pb	BL	Steer white white whi	M
42	White paper adhesive sheet	Hg	N BL	NA	Comply
	white whe we we	Cr 🔬	BL	set atter atter white	with w
	at at at at 5	Br	M BLM	- m m	,t
1 ^{6.}	mit whit whe whe w	Cd	, BL ,	t set set set	NHE NI
	the state of the s	Pb	BL	Wer and and	20. 20
43	Solder	Hg	BL	NA NA	Comply
	ANT AN AL	Cr	BL	white white white w	it with
	t at set is with	Br 🐠	BL		at let
INL	when when when su	Cd	BL	I A SITE MITE MI	WAL
	at at a st	Pb	BL V	NA	, L
44	Red plastic wire covering	Hg	BL		Comply
211	st at at	Cr	BL		20. 20.
	TEX STEEL NUTER , MAN	Br	BL	t at at	THE IT
4	- In In.	Cd	BL	NA	in m
	at set set set	Pb	BL		at at
45	Silvery metal sheet	Hg	BL		Comply
	at at left	Cr N	JUBL 3		e de
	and apply white the	Br	BL	t all set of	+ NITE .
24		Cd	BL N	a whe with	1. 1
		Pb	BL		THE
46	Black plastic wire covering	Hg	BL	NA	Comply
	let let ster ster int	Cr 🕔	BL	50° 50°	it il
	the white white white we	Br	, BL,∱	TEX TEX NITE OF	NITE MALL
		Cd N	BL	Mr. M. W.	1
	inter inter white white	Pb	BL	at the set of	et uter
47	Silvery metal wire	K Hg	BL	NA NA	Comply
	THE STREET STILLES WITTE	Cr	BL	t at at	- Jet
Int'	me me in in	🖈 Br 🦽	BL	it with white white	with w
A	at all the the the	Cd	BL	In the second	it i
	ALL WALL WALL WALL	Pb	BL 🖉	- JEK JEK NIE	Intite MAL
48	Transparent plastic film	Hg	BL	NA	Comply
	set intite until white whe	Cr	BL	at at at	JEK NIE
	20. 21	Br 🗸	BL	in the wat was	MIL

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Part No.	Part Description	Result of XRF		Result of Wet Chemical Testing (mg/kg)	Conclusion on RoHS
A	LIEK MATER WALTER WATER WALTER	Cd	BL		jit j
MLI .		Pb	BL A	aller aller white	which which
49	Yellow transparent plastic adhesive tape	Hg	BL	NA NA	Comply
SEC.	auriesive tape	Cr	BL		
-27	i it at all	Br	BL		1. 24
۲ ,	et alter alter unit wat	Cd	BL	it it lit	STER WALTER.
wint		Pb	BL	ter intite white white	
50	Semi-transparent paper adhesive sheet	Hg	BL S	NA	Comply
MLIL		Cr	BL		white we
	a at at at	Br	M BLM	me m. m.	



Remark:

(1) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1; 2013 (unit: mg/kg)

Element	Polymer	Composite Materials		
Cd	BL ≤ (70-3σ) < IN < (130+3σ) ≤ OL	BL ≤ (70-3σ) < IN < (130+3σ) ≤ OL	$LOD < IN < (150+3\sigma) \le OL$	
Pb	$BL \le (700-3\sigma) < IN < (1300+3\sigma) \le OL$	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (500-3σ) < IN < (1500+3σ) ≤ OL	
Hg	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (500-3σ) < IN < (1500+3σ) ≤ OL	
Cr	BL ≤ (700-3σ) < IN	BL ≤ (700-3σ) <in< td=""><td>BL ≤ (500-3σ) < IN</td></in<>	BL ≤ (500-3σ) < IN	
Br	BL ≤ (300-3σ) < IN	et white white when wh	BL ≤ (250-3σ) < IN	

BL= Below Limit OL= Over Limit LOD = Limit of Detection -- = Not Regulated

- (2) "IN" expresses the inconclusive region, and further chemical testing to confirm whether it complies with the requirement of RoHS Directive.
- (3) The XRF screening test for RoHS elements the reading may be different to the actual content in the sample be of non-uniformity composition.
- (4) ppm = mg / kg, based on the dry weight of tested sample.
- (5) ND = Not Detected, less than the value of Method Detection Limit.
- (6) NA = Not Applicable, as the XRF screening test result was below the limit, it was not need to conduct the wet chemical testing.

Test Items	Pb	Cd	Hg	Cr ⁶⁺		PBB	PBDE
Units	mg/kg	mg/kg	mg/kg	mg/kg	µg/cm ²	mg/kg 💉	mg/kg
MDL	<u>ک</u> 2	2	2	2	0.1	5	* 5 *

The MDL for single compound of PBBs and PBDEs is 5mg/kg, MDL of Cr^{6+} for polymer and composite sample is 2mg/kg and MDL of Cr^{6+} for metal sample is $0.1\mu g/cm^2$.

(8) According to IEC 62321-7-1:2015, determined of Cr⁶⁺ on metal sample by boiling water extraction test method, and result is shown as Positive/Negative.

Boiling water extraction:

Negative = Absence of Cr^{6+} coating, the detected concentration in boiling water extraction solution is less than 0.10 ug/cm².

Positive = Presence of Cr^{6+} coating, the detected concentration in boiling water extraction solution is greater than 0.13ug/cm².

Information on storage conditions and production date of the tested sample is unavailable and thus Cr⁶⁺ results represent status of the sample at the time of testing.

(9) * = According to the declaration from client, the source of lead in test sample could be from the glass or ceramic material of that electronic component which is exempted by Directive 2011/65/EU.

(10) The testing standard "IEC 62321-7-2:2017" does not been accredited by CNAS.

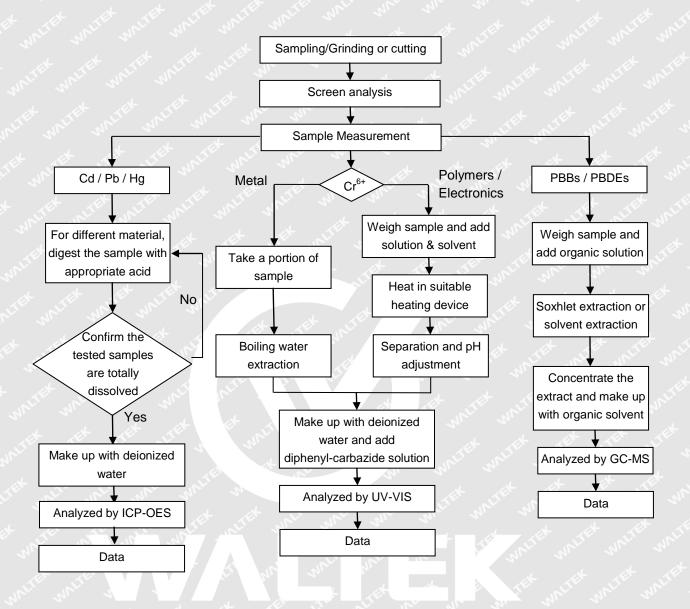


Measurement Flowchart:

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Sample Photo:

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Photograph of parts tested:

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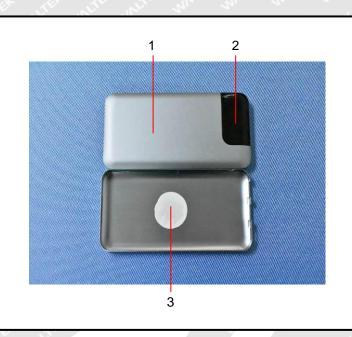
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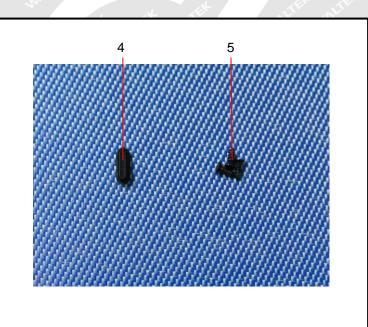
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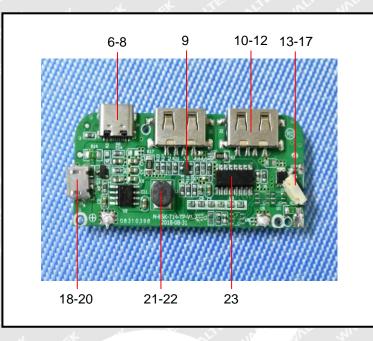
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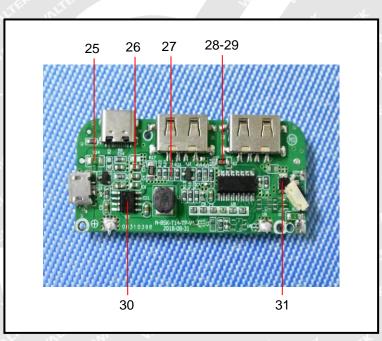
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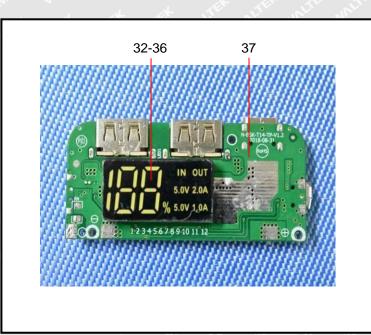
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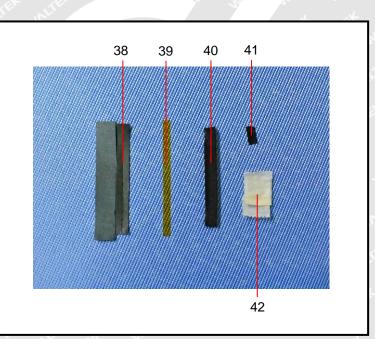
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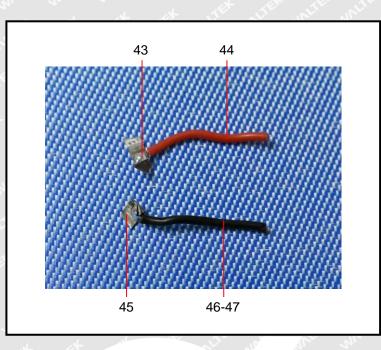
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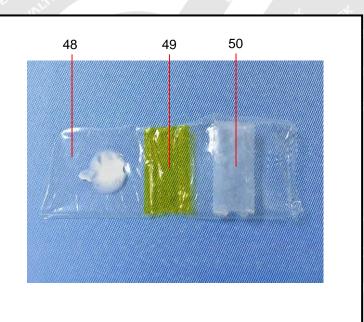
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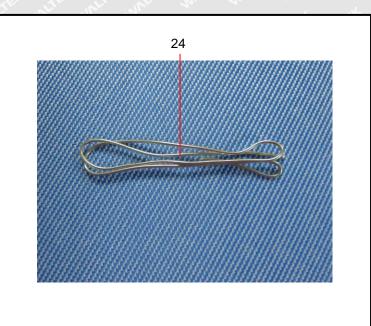
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