

## Verification Report

No. SHAEC2204027901

Date: 26 Jul 2022

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Client Name : Jiangsu DINGS' Intelligent Control Technology Co., Ltd.

Client Address : No. 355, Longjin Road, Luchen Street, Economy Development Zone, Changzhou.

Sample Name : Brushless DC Motor

Manufacturer : Jiangsu DINGS' Intelligent Control Technology Co., LTD

Tested Basic Model No. : 60ZWS50X-1

Client Ref. Information : ZW (C/S)

The above sample(s) and information were provided by the client.

SGS Job No. : SP22-006041 - SH

Date of Sample Received : 08 Mar 2022

Verification Period : 08 Mar 2022 - 18 Jul 2022

Verification Requested : With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method(s) : Please refer to next page(s).

Verification Result(s) : Please refer to next page(s).

Verification Conclusion : Based on the verification results of the submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jessica Chen

Jessica Chen  
Approved Signatory

scan to see the report



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### Verification Method(s) :

1. With reference to IEC 62321-2:2021, review was performed for the samples disjointed from the submitted articles.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
  - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
  - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.

Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
1	Silvery metal (screw)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
2	Black metal (shell)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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3	Black rubber (boot)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	
4	Silvery metal (connecting rod)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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5	Black magnet	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	
6	Silvery metal (dowel)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
7	Silvery metal (silicon plate)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
8	Silvery metal (bearing)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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9	Silvery metal (bearing)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
10	Silvery metal (bearing)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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11	Silvery metal (bearing)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
12	White fibre (cotton rope)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
13	Copper-colored metal (enamelled wire)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- IN IN IN IN	--- --- --- --- --- --- ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022
14	Beige plastic (bracket)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022



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15	Black metal (silicon plate)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL IN --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- ND --- --- --- --- --- ---	Comply Comply Comply Comply --- --- --- --- --- ---	08 Mar 2022
16	Black metal (washer)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply --- --- --- --- --- ---	08 Mar 2022



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Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
17	Black diode (body)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022
18	Beige adhesive (gasket cement)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022



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Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
19	Green PCB (body)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL IN IN --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- ND ND --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022
20	Silvery metal (soldering tin)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply --- --- --- --- --- ---	08 Mar 2022



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Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
21	Black plastic (jacket) (wire harness)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022
22	Blue plastic (wire sheath) (wire harness)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022



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Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
23	Green plastic (wire sheath) (wire harness)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022
24	Yellow plastic (wire sheath) (wire harness)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022



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Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
25	Silvery metal (wire harness)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
26	Red plastic (wire sheath) (wire harness)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
27	Black plastic (wire sheath) (wire harness)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022
28	Blue plastic (wire sheath) (wire harness)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	08 Mar 2022



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Part No.	Part Description	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Screening Result of PHTH <sup>(2)</sup>	Result of Wet Chemical Testing <sup>(3)</sup> (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
29	Green plastic (wire sheath) (wire harness)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	
30	Yellow plastic (wire sheath) (wire harness)	Pb	BL	---	---	Comply	08 Mar 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	



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## Remark

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).  
 (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3 \sigma) < X < (130+3 \sigma) \leq OL$	$BL \leq (70-3 \sigma) < X < (130+3 \sigma) \leq OL$	$LOD < X < (150+3 \sigma) \leq OL$
Pb	$BL \leq (700-3 \sigma) < X < (1300+3 \sigma) \leq OL$	$BL \leq (700-3 \sigma) < X < (1300+3 \sigma) \leq OL$	$BL \leq (500-3 \sigma) < X < (1500+3 \sigma) \leq OL$
Hg	$BL \leq (700-3 \sigma) < X < (1300+3 \sigma) \leq OL$	$BL \leq (700-3 \sigma) < X < (1300+3 \sigma) \leq OL$	$BL \leq (500-3 \sigma) < X < (1500+3 \sigma) \leq OL$
Br	$BL \leq (300-3 \sigma) < X$	Not Applicable	$BL \leq (250-3 \sigma) < X$
Cr	$BL \leq (700-3 \sigma) < X$	$BL \leq (700-3 \sigma) < X$	$BL \leq (500-3 \sigma) < X$

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection.

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

- (2) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value(unit: mg/kg).

Compound	Polymer
DBP	$BL \leq 600 < X$
BBP	$BL \leq 600 < X$
DEHP	$BL \leq 600 < X$
DIBP	$BL \leq 600 < X$

- (3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable, - = Without BOM.

(b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg,  
 MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.  
 MDL of Cr(VI) for metal sample is 0.10µg/cm².



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(c) ▼=Metal sample

- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than  $0.13 \mu\text{g}/\text{cm}^2$ .  
The sample coating is considered to contain Cr(VI)
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than  $0.10 \mu\text{g}/\text{cm}^2$ ).  
The coating is considered a non-Cr(VI) based coating
- c. The result between  $0.10 \mu\text{g}/\text{cm}^2$  and  $0.13 \mu\text{g}/\text{cm}^2$  is considered to be inconclusive  
- 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.

- (4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%.  
The limit is quoted from RoHS Directive (EU) 2015/863.

- (5) IEC 62321 series is equivalent to EN 62321 series

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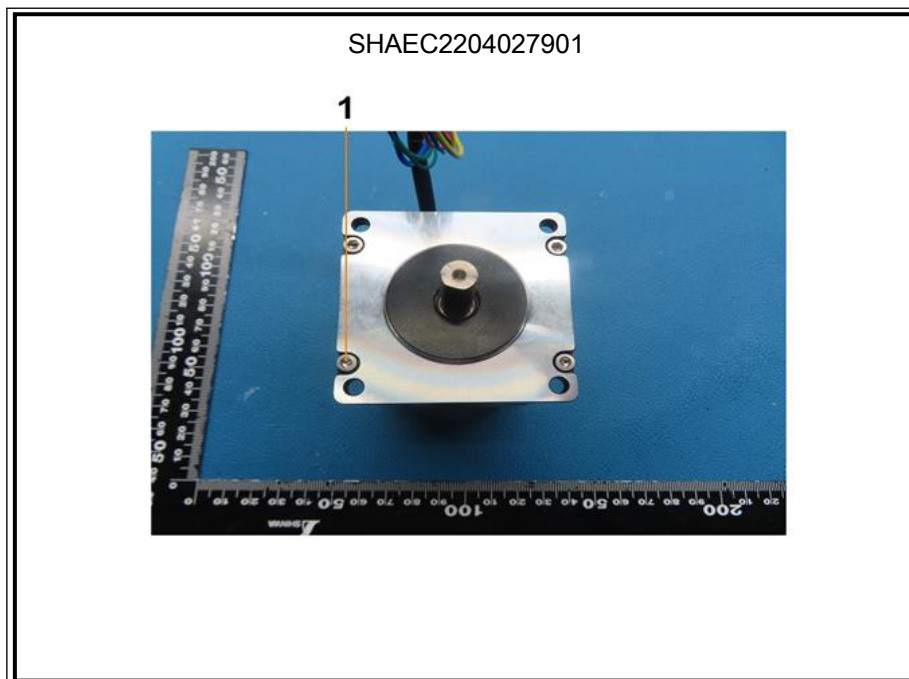
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No. SHAEC2204027901

Date: 26 Jul 2022

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Sample photo:



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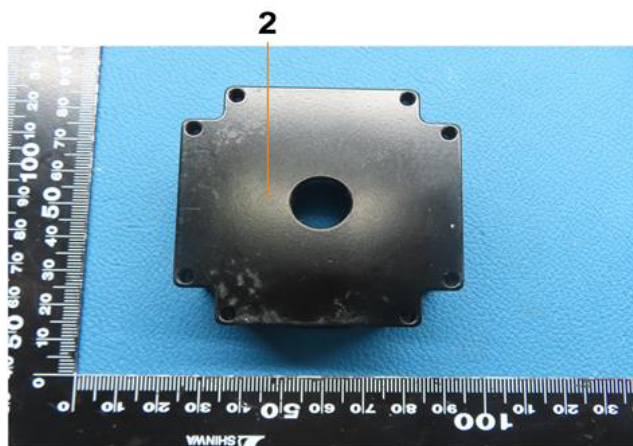
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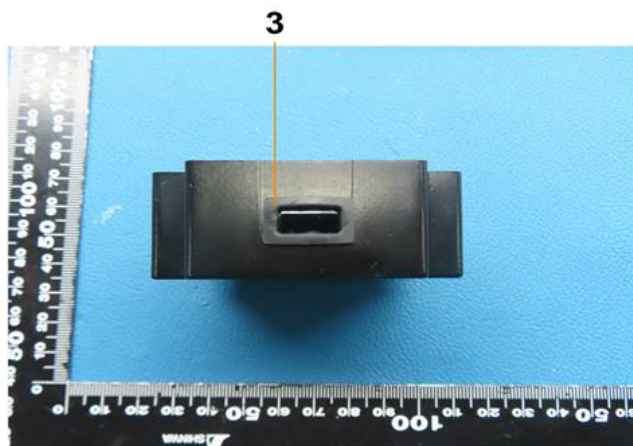
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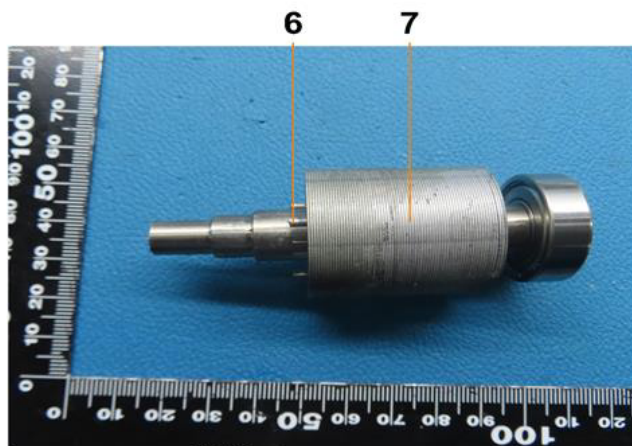
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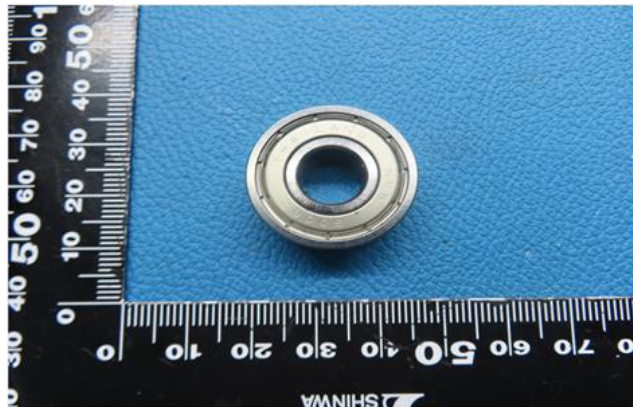
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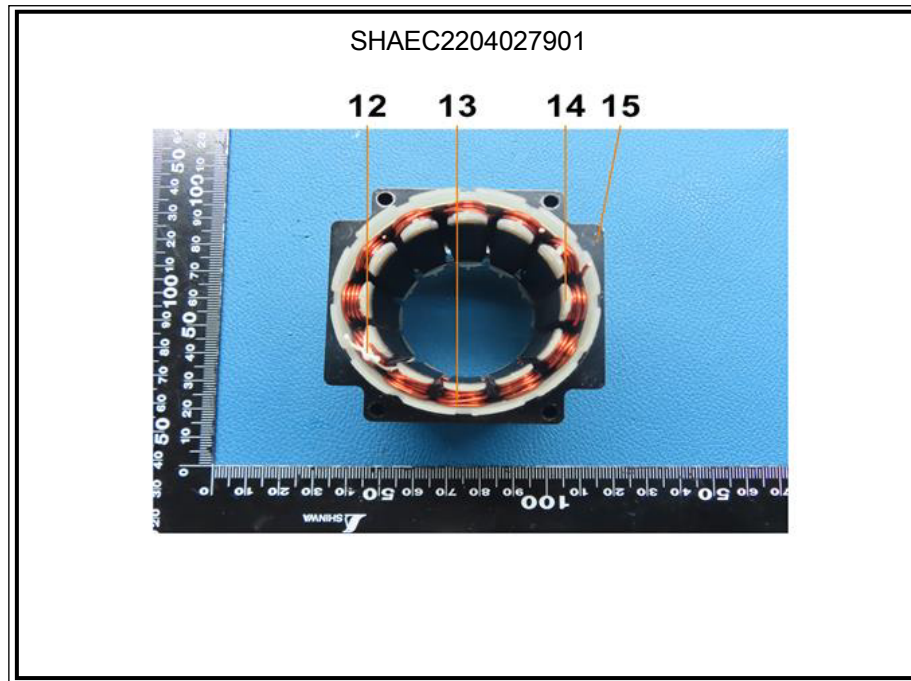
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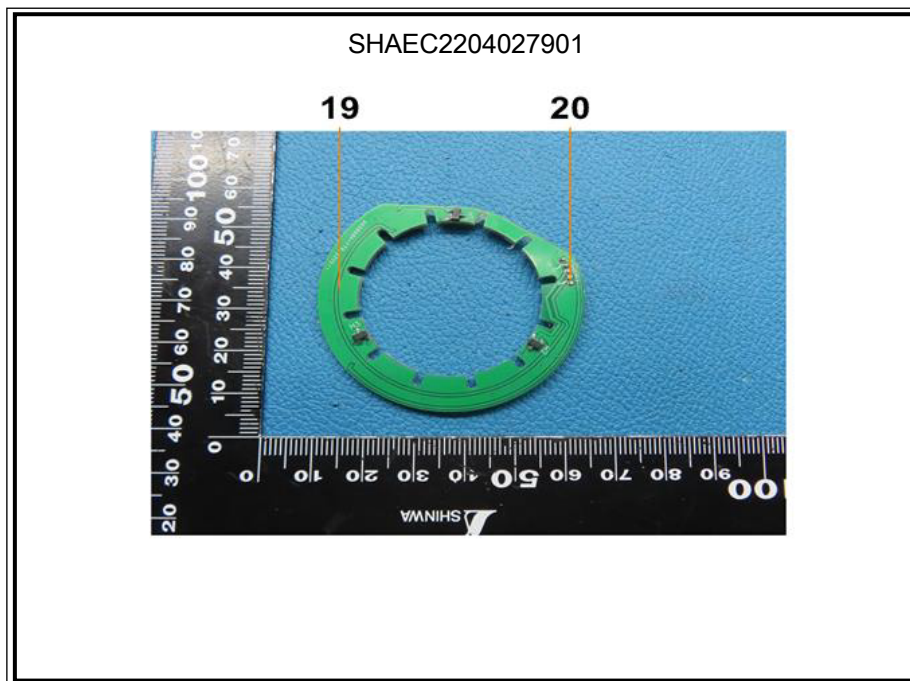
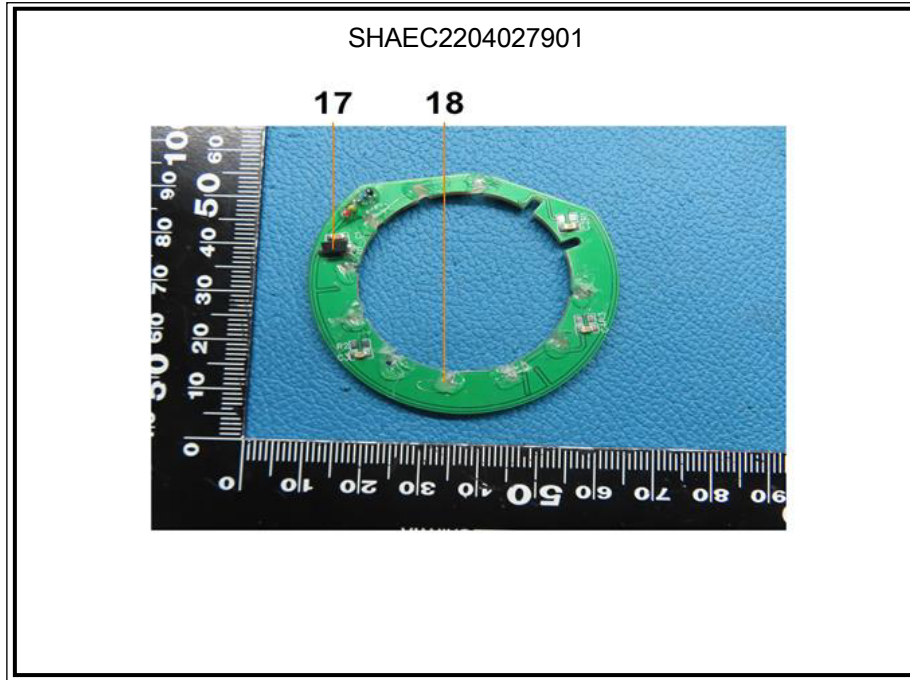
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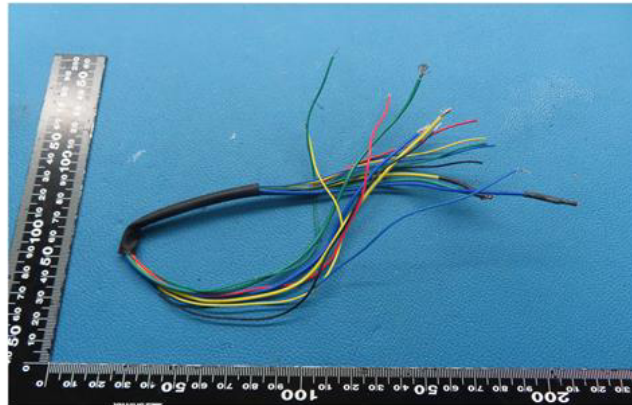
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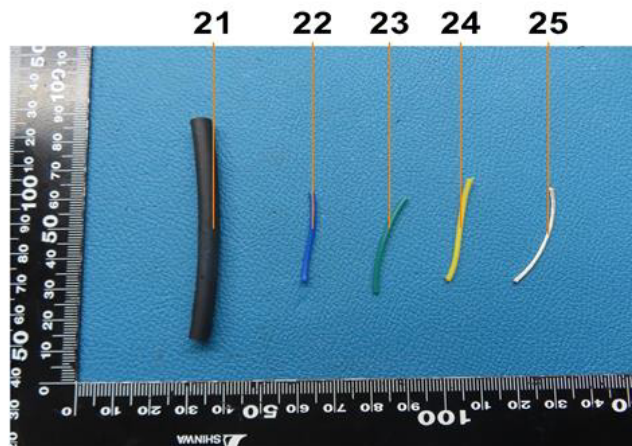
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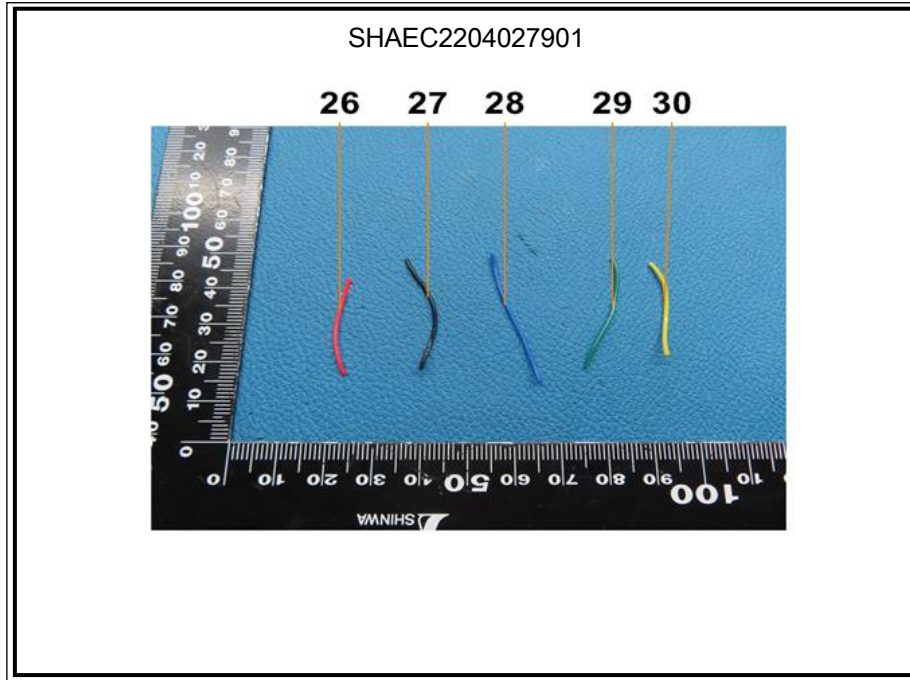
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