

Verification Report

No. CKGEC2200570801

Date: 04 Jul 2022

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Client Name : BLUEVIEW ELEC-OPTIC TECH CO., LTD

Client Address : NO.1000, SECTION 2, 2ND KONGGANG ROAD, SOUTHWEST AVIATION INDUSTRIAL DEVELOPMENT ZONE, CHENGDU, SICHUAN, CHINA

Sample Name : LED lighting

Tested Basic Model No. FN-2835-240-12 ;M6

(P.O.No) :

Client Ref. Info. : Remark

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

SGS Job No. : 10013513 - CQ

Date of Sample Received : 20 Jun 2022

Verification Period : 20 Jun 2022 - 01 Jul 2022

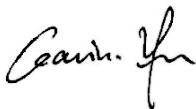
Verification Requested : With reference to RoHS Directive 2015/863/EU amending 2011/65/EU.

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 (Chongqing) Co., Ltd.



Gavin Hu
Approved Signatory

scan to see the report



683597AB



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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.

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	Restricted Substances	Results of EDXRF ⁽¹⁾	Screening Result of PHTH ⁽²⁾	Result of Wet Chemical Testing ⁽³⁾ (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
1	White plastic (wire insulation) w/ black printing	Pb Cd Hg Cr(VI) ▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- BL --- BL ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	20 Jun 2022
2	Transparent plastic part	Pb Cd Hg Cr(VI) ▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- BL --- BL ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	20 Jun 2022



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Part No.	Part Description	Restricted Substances	Results of EDXRF ⁽¹⁾	Screening Result of PHTH ⁽²⁾	Result of Wet Chemical Testing ⁽³⁾ (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
3	Black plastic (wire insulation)	Pb	BL	---	---	Comply	20 Jun 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	Red plastic (wire insulation)	Pb	BL	---	---	Comply	20 Jun 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	
5	Silvery metal wire	Pb	BL	---	---	Comply	20 Jun 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI) ▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	



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Part No.	Part Description	Restricted Substances	Results of EDXRF ⁽¹⁾	Screening Result of PHTH ⁽²⁾	Result of Wet Chemical Testing ⁽³⁾ (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
6	Yellow body	Pb	BL	---	---	Comply	20 Jun 2022
		Cd	BL	---	---	Comply	
		Hg	OL	---	ND	Comply	
		Cr(VI) ▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	
7	Black body (chip resistor)	Pb	BL	---	---	Comply	20 Jun 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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8	Silvery metal sheet w/ white surface	Pb	BL	---	---	Comply	20 Jun 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	
9	Silvery metal solder	Pb	IN	---	667	Comply	20 Jun 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI) ▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
10	Transparent adhesive material	Pb	BL	---	---	Comply	20 Jun 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI) ▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF ⁽¹⁾	Screening Result of PHTH ⁽²⁾	Result of Wet Chemical Testing ⁽³⁾ (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	
11	White / red plastic (wire insulation) w/ black printing	Pb	BL	---	---	Comply	20 Jun 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	
12	White plastic (wire insulation) w/ black printing	Pb	BL	---	---	Comply	20 Jun 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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13	Transparent plastic part w/ black printing	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	20 Jun 2022
14	Grey adhesive material	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	20 Jun 2022
15	Silvery metal wire	Pb Cd Hg Cr(VI) ▼ PBBs PBDEs DBP	BL BL BL BL --- --- ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	Comply Comply Comply Comply --- --- ---	20 Jun 2022



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		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
16	Silvery metal solder	Pb	IN	---	879	Comply	20 Jun 2022
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI) ▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
17	Silvery metal sheet w/ white surface	Pb	BL	---	---	Comply	20 Jun 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 ⁽¹⁾	Screening Result of PHTH ⁽²⁾	Result of Wet Chemical Testing ⁽³⁾ (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
18	Yellow body	Pb Cd Hg Cr(VI) ▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL OL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- ND --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	20 Jun 2022
19	Black 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	20 Jun 2022
20	White plastic part	Pb Cd Hg Cr(VI) ▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- BL	--- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply	20 Jun 2022



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Part No.	Part Description	Restricted Substances	Results of EDXRF ⁽¹⁾	Screening Result of PHTH ⁽²⁾	Result of Wet Chemical Testing ⁽³⁾ (mg/kg)	Conclusion	Sample Submitted / Resubmitted Date
		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 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 EDXRF 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	DBP	BBP	DEHP	DIBP
Polymer	$BL \leq 600 < X$	$BL \leq 600 < X$	$BL \leq 600 < X$	$BL \leq 600 < X$

(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 0.10 µg/cm².

(c) ▼ =Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm².

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 µg/cm²).

The coating is considered a non- Cr(VI) based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² 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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Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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Verification Report

No. CKGEC2200570801

Date: 04 Jul 2022

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Remark

CCX-GX-X-X, CX-X-X-X-X, CX-HX-X-X-X, FX-X-X-X-X, FX-HX-X-X-X, FX-FX-X-X-X, LX-X-X-X-X, SX-X-X-X-X, SX-X-X-X-X, MX-X-X-X-X, TX-X-X-X-X, (V)(P)TW-X-X-X-X, FWSL2216-X-X, TCCN-HX-X-X, DX-X-X-X-X, FDN-X-X-X-X, DMXN-XX-X-X-X, QX-X-X-X-X, CSP-X-X-X-X, H25, H150 (X=any number or Alphabet). number or Alphabet)

FB-R-X, FB-W-X, FB-O-X, FB-G-X, FB-RY-X, FB-Y-X, FB-B-X (X=any number or Alphabet)

757, 9PC2, BC2-X, BCX, BP2-X, BQ5-A, BTH, CSX, KPT8-X, MX-X, MN-X, MZ18-X, PC2, PJ2, PQX-X, PSX-X, PTX-X, PZX-X, PX-X, QGX-X, SG2-X, SM2-X, SSX, STX-X, TYL, Z18-X, Z19-X, Rui2, Rui3, Rui6, B2S, B18, N2, K2, O3030-X, O60-X, DMX, OM-XX, DMX-X-X, BV-AL-X, BV-B-X, BV-SMD-X, (X=any number or Alphabet)

BP2-X, BPS300, BPS-X, BV-BARAL-2835, X-BAR-X-X-X, CF146-OS, CF150-OS, CG2-X, FB-X, FYD2-X, H2, H3, H5, JL2, JYDX, JYL2, JYLT2, QBPS-X, QYD8, Y6, YD2-X, YD3-X, YD7-X, YD8X, YL2, YLD2, YZ9, (X=any number or Alphabet)

NDFXXX, NCRXXX, NDRXXX, NMRXXX, NSFXXXX, NSRXXXX, NMFXXXX, CRXXXX N2-X

the former two X=the width of product

the latter two X=the height of product



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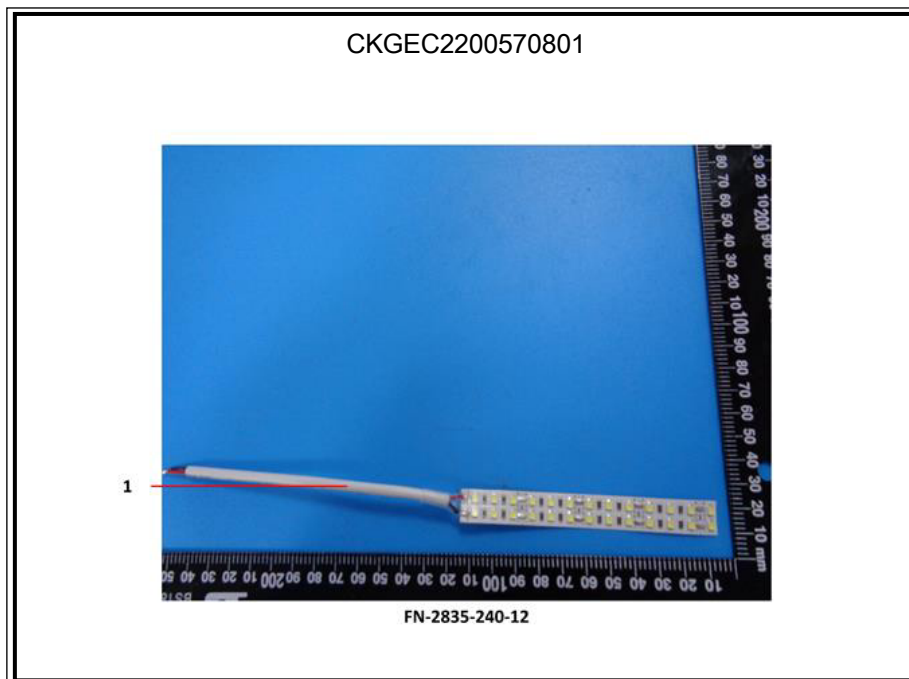
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Sample photo:



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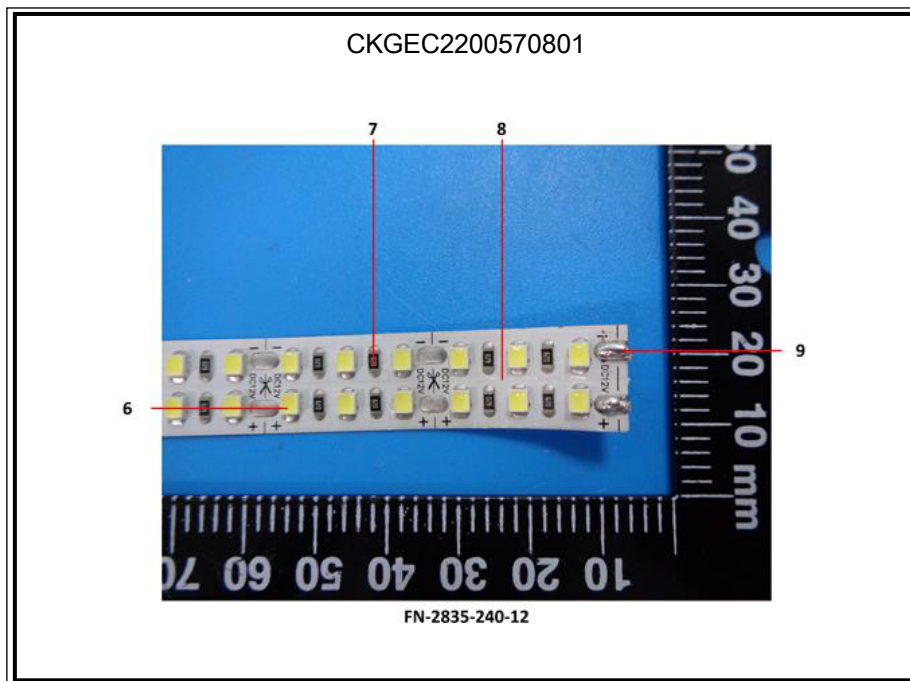
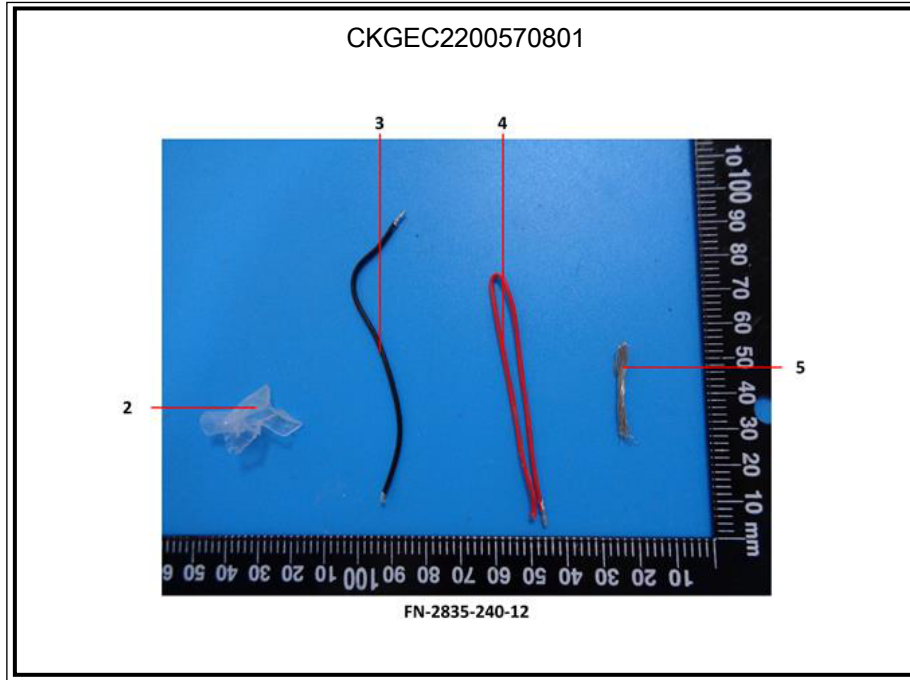
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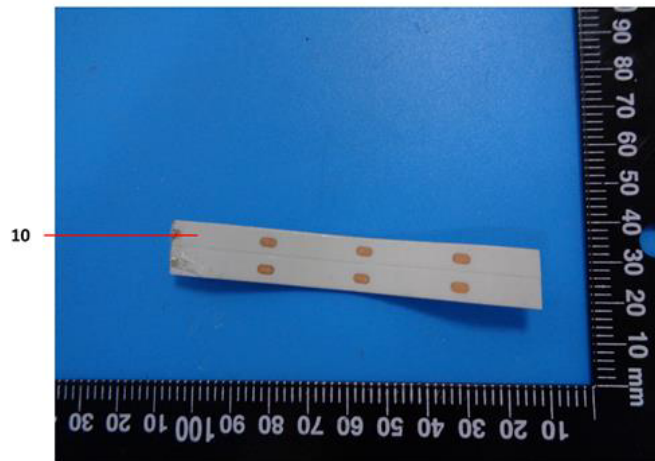
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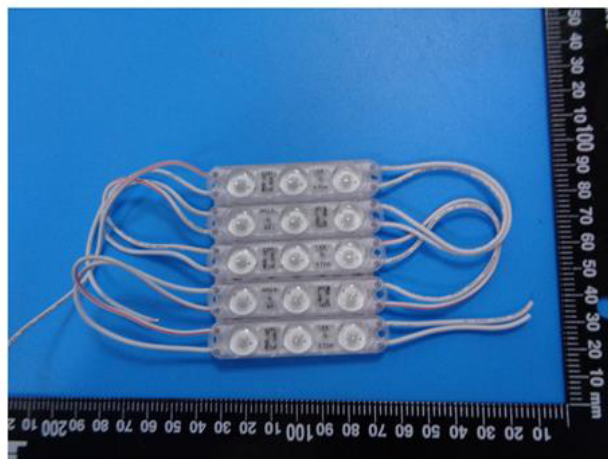
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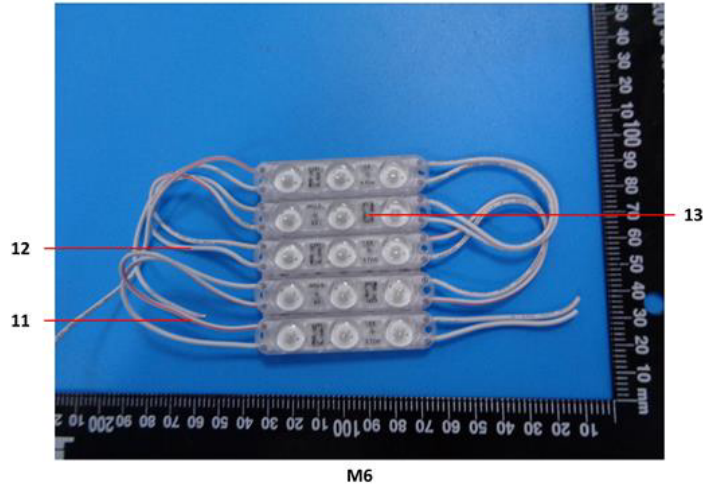
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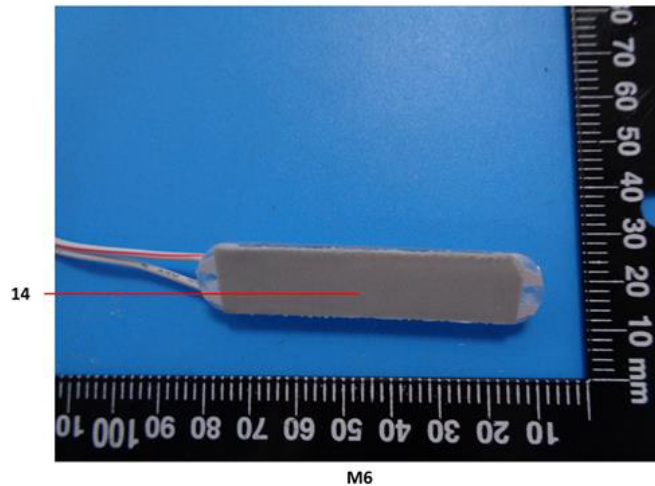
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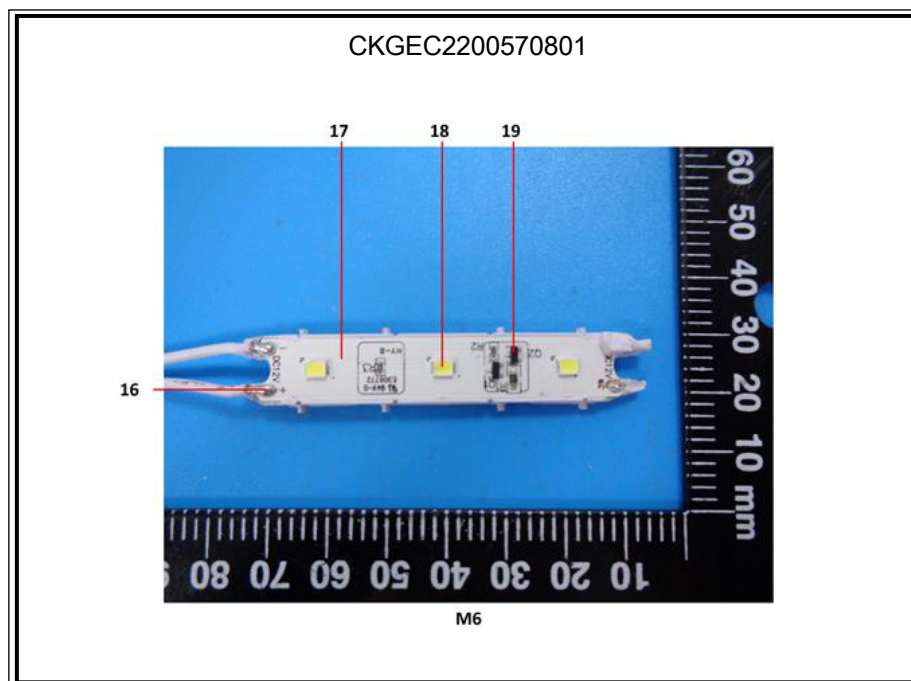
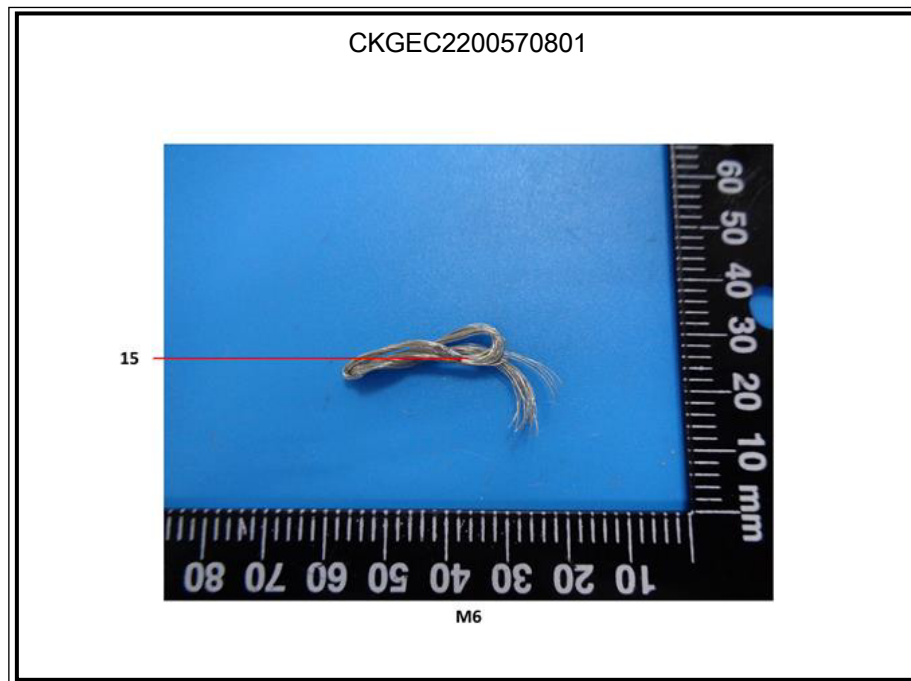
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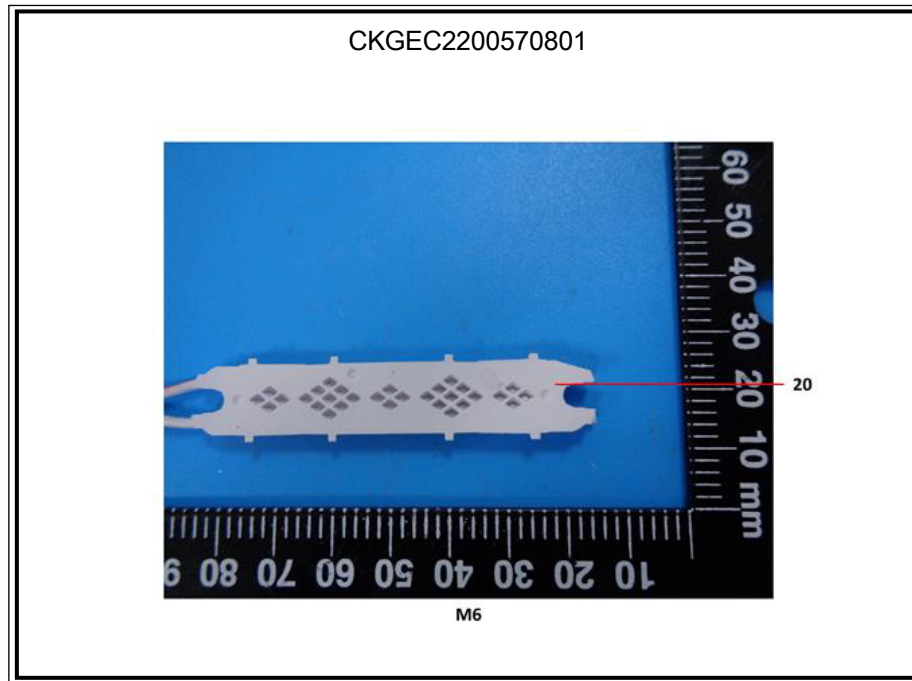
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