

验证报告 编号: SHAEC24000204402 日期: 2024年01月30日 第1页,共18页

客户名称: 江苏鼎智智能控制科技股份有限公司

客户地址: 江苏省常州经济开发区潞城街道龙锦路 355 号

样品名称: 简易模组/微型夹爪

测试基本型号: DLM50-17E2110R4-KRL40-001 测试扩展型号: DMEG12-11N2110R4-KPL28D-001 客户参考信息: DLM/DSM/DSLM/DWM/DLG/DMEG

以上样品及信息由客户提供。

SHP24-000248 SGS 工作编号:

样品接收时间: 2024年01月04日

验证周期: 2024年01月04日~2024年01月29日

验证要求: 参考欧盟 RoHS 指令 2011/65/EU 的修正指令(EU) 2015/863。

验证方法: 见后续页。 验证程序和结果: 见后续页。

检测结果总结:

检测项目	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 修正指令(EU) 2015/863- 铅, 汞, 镉, 六价铬,	
多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁	符合
苄酯(BBP), 邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	

通标标准技术服务(上海)有限公司 授权签名

陈告欢

Jessica Chen 陈皆欢 批准签署人





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编号: SHAEC24000204402

日期: 2024年01月30日

第2页,共18页





验证方法:

- 1. 参考 IEC 62321-2:2021, 拆分申请者提供的成品。
- 2. 参考 IEC 62321-1:2013, 仅对本报告照片中标识的样品进行了下列测试分析。
- (1) 参考 IEC 62321-3-1: 2013, 用能量色散型 X 射线荧光分析仪器进行筛选。
- (2) 湿法化学检测方法:参考 IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-12:2023, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES,UV-Vis 和 GC- MS 进行分析。



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编号: SHAEC24000204402

日期: 2024年01月30日

第3页,共18页

验证部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA24-0002044-0001.C001	黑色金属支架
SN2	A2	SHA24-0002044-0001.C002	银色金属支架
SN3	А3	SHA24-0002044-0001.C003	黑色金属外壳
SN4	A4	SHA24-0002044-0001.C004	白色塑料
SN5	A5	SHA24-0002044-0001.C005	银色金属螺丝
SN6	A6	SHA24-0002044-0001.C006	黑色金属外壳
SN7	A7	SHA24-0002044-0001.C007	黑色金属外壳
SN8	A8	SHA24-0002044-0001.C008	外壳上黑色金属
SN9	A9	SHA24-0002044-0001.C009	外壳上米色塑料
SN10	A10	SHA24-0002044-0001.C010	银色金属垫片
SN11	A11	SHA24-0002044-0001.C011	银色金属支架
SN12	A12	SHA24-0002044-0001.C012	黑色塑料支架
SN13	A13	SHA24-0002044-0001.C013	橙色塑料支架
SN14	A14	SHA24-0002044-0001.C014	黑色橡胶垫片
SN15	A15	SHA24-0002044-0001.C015	银色金属
SN16	A16	SHA24-0002044-0001.C016	银色金属钢球
SN17	A17	SHA24-0002044-0001.C017	轴承上银色金属
SN18	A18	SHA24-0002044-0001.C018	轴承上银色金属
SN19	A19	SHA24-0002044-0001.C019	银色金属螺丝
SN20	A20	SHA24-0002044-0001.C020	黑色塑料盖板
SN21	A21	SHA24-0002044-0001.C021	白/黑色粘性塑料标签
SN22	A22	SHA24-0002044-0001.C022	黑色金属螺丝
SN23	A23	SHA24-0002044-0001.C023	黑色粘性塑料标签
SN24	A24	SHA24-0002044-0001.C024	银色金属螺丝
SN25	A25	SHA24-0002044-0001.C025	银色金属盖板



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编号: SHAEC24000204402

日期: 2024年01月30日

第4页,共18页

样品序号	样品编号	SGS 样品 ID	样品描述
SN26	A26	SHA24-0002044- 0001.C026.C001	银色金属衬套
SN27	A27	SHA24-0002044-0001.C027	黑色塑料盖板
SN28	A28	SHA24-0002044-0001.C028	PCB 上米色塑料接头
SN29	A29	SHA24-0002044-0001.C029	PCB 上银色金属插针
SN30	A30	SHA24-0002044-0001.C030	PCB 上银色金属焊锡
SN31	A31	SHA24-0002044-0001.C031	绿色 PCB 本体
SN32	A32	SHA24-0002044-0001.C032	白色塑料接头
SN33	A33	SHA24-0002044-0001.C033	银色金属端子
SN34	A34	SHA24-0002044-0001.C034	黑色塑料外被
SN35	A35	SHA24-0002044-0001.C035	绿色塑料外被
SN36	A36	SHA24-0002044-0001.C036	黄色塑料外被
SN37	A37	SHA24-0002044-0001.C037	红色塑料外被
SN38	A38	SHA24-0002044-0001.C038	白色塑料外被
SN39	A39	SHA24-0002044-0001.C039	黑色塑料外被
SN40	A40	SHA24-0002044-0001.C040	黑色塑料热缩管
SN41	A41	SHA24-0002044-0001.C041	棕色塑料外被
SN42	A42	SHA24-0002044-0001.C042	橙色塑料外被
SN43	A43	SHA24-0002044-0001.C043	灰色塑料外被
SN44	A44	SHA24-0002044-0001.C044	红色塑料外被
SN45	A45	SHA24-0002044-0001.C045	红/白色塑料外被
SN46	A46	SHA24-0002044-0001.C046	绿色塑料外被
SN47	A47	SHA24-0002044-0001.C047	绿/白色塑料外被
SN48	A48	SHA24-0002044-0001.C048	白色塑料垫片
SN49	A49	SHA24-0002044-0001.C049	白色塑料支架
SN50	A50	SHA24-0002044-0001.C050	PCB 上银色金属焊锡



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编号: SHAEC24000204402

日期: 2024年01月30日

第5页,共18页

样品序号	样品编号	SGS 样品 ID	样品描述
SN51	A51	SHA24-0002044-0001.C051	绿色 PCB 本体
SN52	A52	SHA24-0002044-0001.C052	轴承上银色金属
SN53	A53	SHA24-0002044-0001.C053	轴承上银色金属
SN54	A54	SHA24-0002044-0001.C054	轴承上银色金属
SN55	A55	SHA24-0002044-0001.C055	轴承上银色金属
SN56	A56	SHA24-0002044-0001.C056	金色金属轴
SN57	A57	SHA24-0002044-0001.C057	银色金属轴
SN58	A58	SHA24-0002044-0001.C058	银色金属外壳
SN59	A59	SHA24-0002044-0001.C059	银色塑料垫片
SN60	A60	SHA24-0002044-0001.C060	金色金属销
SN61	A61	SHA24-0002044-0001.C061	黑色塑料
SN62	A62	SHA24-0002044-0001.C062	PCB 上米色塑料接头
SN63	A63	SHA24-0002044-0001.C063	PCB 上银色金属插针
SN64	A64	SHA24-0002044-0001.C064	PCB 上银色金属焊锡
SN65	A65	SHA24-0002044-0001.C065	绿色 PCB 本体
SN66	A66	SHA24-0002044-0001.C066	银色金属螺丝
SN67	A67	SHA24-0002044-0001.C067	银色金属螺丝



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编号: SHAEC24000204402

日期: 2024年01月30日

第6页,共18页

验证结果:

根据物料风险评估的结果,验证送测样品中的以下材料。(除特别标注,单位均为: mg/kg)

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检测项目	A1	A2	A3	A4	A5	A6	A7	A8
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	290	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	BL	BL	ND	BL	BL	BL
PBBs				BL				
PBDEs				BL				
DBP				BL				
BBP				BL				
DEHP				BL				
DIBP				BL				
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A9	A10	A11	A12	A13	A14	A15	A16
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	ND	BL	BL	BL	ND	ND
PBBs	BL			BL	BL	BL		
PBDEs	BL			BL	BL	BL		
DBP	BL			BL	BL	BL		
BBP	BL			BL	BL	BL		
DEHP	BL			BL	BL	BL		
DIBP	BL			BL	BL	BL		
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A17	A18	A19	A20	A21	A22	A23	A24
Cd	BL							
Pb	BL							
Hg	BL							
Cr(VI)▼	ND	ND	BL	BL	BL	ND	BL	ND
PBBs				BL	BL		BL	
PBDEs				BL	BL		BL	
DBP				BL	BL		BL	
BBP				BL	BL		BL	
DEHP				BL	BL		BL	
DIBP				BL	BL		BL	
结论	符合							

	检测项目	A25	A26	A27	A28	A29	A30	A31	A32
Г	Cd	BL							
	Pb	BL							
Г	Hg	BL							



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编号: SHAEC24000204402

日期: 2024年01月30日

第7页,共18页

检测项目	A25	A26	A27	A28	A29	A30	A31	A32
Cr(VI)▼	BL	ND	BL	BL	BL	BL	BL	BL
PBBs			BL	ND			ND	ND
PBDEs			BL	ND			ND	ND
DBP			BL	BL			BL	BL
BBP			BL	BL			BL	BL
DEHP			BL	BL			BL	BL
DIBP			BL	BL			BL	BL
结论	符合							

检测项目	A33	A34	A35	A36	A37	A38	A39	A40
Cd	BL							
Pb	BL							
Hg	BL							
Cr(VI)▼	BL							
PBBs		BL						
PBDEs		BL						
DBP		BL						
BBP		BL						
DEHP		BL						
DIBP		BL						
结论	符合							

检测项目	A41	A42	A43	A44	A45	A46	A47	A48
Cd	BL							
Pb	BL							
Hg	BL							
Cr(VI)▼	BL							
PBBs	BL							
PBDEs	BL							
DBP	BL							
BBP	BL							
DEHP	BL							
DIBP	BL							
结论	符合							

检测项目	A49	A50	A51	A52	A53	A54	A55	A56
Cd	BL							
Pb	BL	17225 ▲						
Hg	BL							
Cr(VI)▼	BL	BL	BL	ND	ND	BL	ND	BL
PBBs	BL		ND					
PBDEs	BL		ND					
DBP	BL		BL					
BBP	BL		BL					
DEHP	BL		BL					



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编号: SHAEC24000204402

日期: 2024年01月30日

第8页,共18页

检测项目	A49	A50	A51	A52	A53	A54	A55	A56
DIBP	BL		BL					
结论	符合							

检测项目	A57	A58	A59	A60	A61	A62	A63	A64
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	11413▲	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL
PBBs			BL		BL	ND		
PBDEs			BL		BL	ND		
DBP			BL		BL	BL		
BBP			BL		BL	BL		
DEHP			BL		BL	BL		
DIBP			BL		BL	BL		
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A65	A66	A67
Cd	BL	BL	BL
Pb	BL	BL	BL
Hg	BL	BL	BL
Cr(VI)▼	BL	ND	ND
PBBs	ND		
PBDEs	ND		
DBP	BL		
BBP	BL		
DEHP	BL		
DIBP	BL		
结论	符合	符合	符合



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编号: SHAEC24000204402

日期: 2024年01月30日

第9页,共18页

备注:

(1) X 射线荧光光谱法(XRF)筛选结果说明:

(a)下表为 IEC62321-3-1: 2013 附录 A 不同基体材料中以 mg/kg 表示的筛选元素限值:

		<u> </u>	=
元素	聚合物	金属	复合材料
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Br	BL ≤ (300-3σ)< X	不适用	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

- (b) 现行法规限制的最大允许值是对 PBB/PBDE 和 Cr(VI) 而不是对 Br 和 Cr 的, 而 XRF 测定的是 Br 和 Cr。如果元素 Br 和或 Cr 的定量结果均高于限值(Br 计算基于在常见物质中 PBB/PBDE 的组成的理论计 算),则样品的筛选结果为"不确定"。
- (c) EDXRF 的结果用于初步筛选,LOD=检出限,BL=低于限值,OL=超出限值,IN (符号"X"标记的区域) =不确定,需要进一步研究,我们建议客户用更精确的化学检测方法测试样品,如用 ICP-OES 测试 Cd/Pb/Hg; 用 UV-Vis 测试 Cr(VI); 用 GC-MS 测试 PBBs/PBDEs。
- (d) 对于复合材料, EDXRF 筛选检测 RoHS 元素所得数据可能与样品中实际含量不同。
- (2) 邻苯二甲酸酯(PHTH)筛分结果只作初步筛选,如果检测结果超出下表所规定的警戒范围,我们采用更精确 的化学检测方法检测样品,用 GC-MS 检测 DBP、BBP、DEHP 和 DIBP (单位: mg/kg)。

检测项目	CAS No.	聚合物/复合材料
邻苯二甲酸二丁酯 (DBP)	84-74-2	BL ≤ 600< X
邻苯二甲酸丁苄酯 (BBP)	85-68-7	BL ≤ 600< X
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	BL ≤ 600< X
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	BL ≤ 600< X

- (3) 化学检测方法结果说明:
 - (a) mg/kg = 0.0001%, MDL=方法检测限, ND =未检出(低于 MDL), --- =不适用。
 - (b) 化学检测方法的表达单位和方法检测限

检测项目	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
单位	mg/kg						
方法检测限	10	10	10	100	100	100	100

任何一种 PBBs 和 PBDEs 的方法检测限是 100 mg/kg;

聚合物,复合材料和皮革样品中 Cr(VI)的方法检测限是 10 mg/kg。

金属样品中 Cr(VI)的方法检测限是 0.10 µg/cm²。

- (c) ▼ = 金属样品中
 - a. 当六价铬的浓度高于 0.13 μg/cm²时,样品为阳性,即含有六价铬;
 - b. 当六价铬的浓度为 ND(低于 0.10 μg/cm²)时,样品为阴性,即未检测到六价铬;
 - c. 当六价铬的浓度介于 0.10 μg/cm²与 0.13 μg/cm²之间时,无法直接判定是否检测到六价铬,因不同 个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

(4) RoHS 指令中限制物质及均质材料中最大允许浓度值: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/ DEHP /DBP/BBP/DIBP: 0.1%, 限值引用自 RoHS 指令(EU) 2015/863。



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编号: SHAEC24000204402

日期: 2024年01月30日

第 10 页, 共 18 页

(5) IEC 62321 系列等同于 EN 62321 系列。

(6) ▲=根据客户提供的声明,编号 A56, A60 中的铅(Pb)被欧盟 RoHS 指令 2011/65/EU 豁免,相应豁免条文(请以英文原文为准) |ANNEX III 6(c)|:铜合金中的铅含量不得超过 4%。

更多豁免相关信息,可以从以下链接获取:

https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20%28CN%29.pdf

(7) 根据申请商申明,型号"DMEG12-11N2110R4-KPL28D-001"中其他部件的材质与型号"DLM50-17E2110R4-KRL40-001"的相同,型号"DLM50-17E2110R4-KRL40-001"测试结果用于替代型号"DMEG12-11N2110R4-KPL28D-001"中其他部件的测试结果。申请公司将承担所有的差异和风险。

(8) 根据申请商申明,型号"DLM50-17E2110R4-KRL40-001"的材质与型号 "DLM/DSM/DSLM/DWM/DLG/DMEG"的相同,其测试结果用于替代型号 "DLM/DSM/DSLM/DWM/DLG/DMEG"的测试结果。申请公司将承担所有的差异和风险。

除非另有说明,参照 ILAC-G8:09/2019,使用简单接受(w=0)的二元判定规则进行符合性判定。 除非另有说明,此报告结果仅对检测的样品负责。本报告未经本公司书面许可,不可部分复制。 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。



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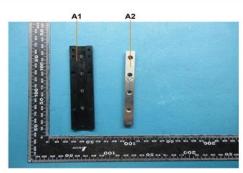
第11页,共18页

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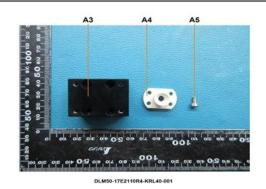
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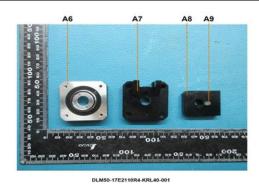


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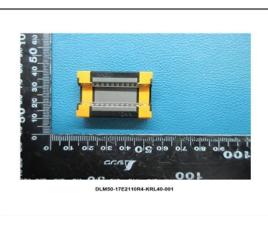
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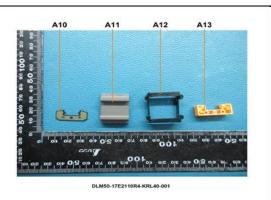


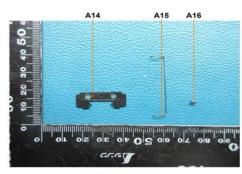
编号: SHAEC24000204402

日期: 2024年01月30日

第12页,共18页







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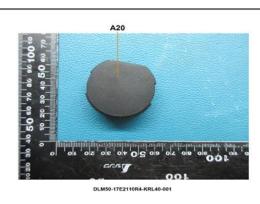
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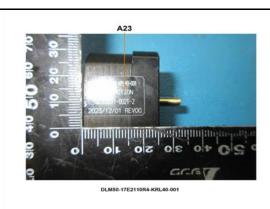
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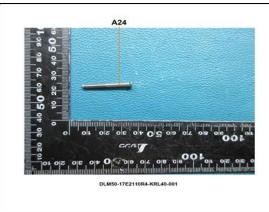
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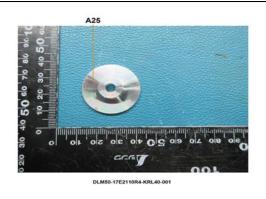














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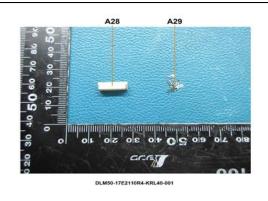
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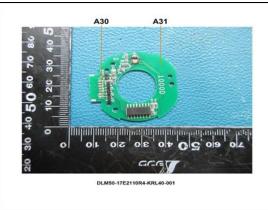














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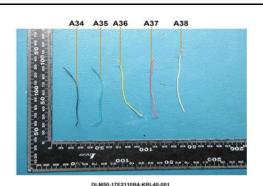
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日期: 2024年01月30日

第15页,共18页

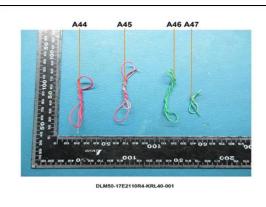


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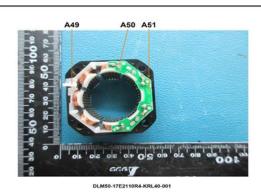


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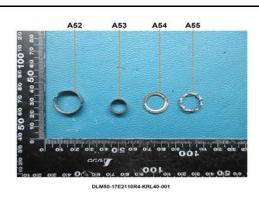
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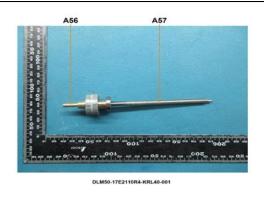
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检验检测专用章 spection & Testing Services

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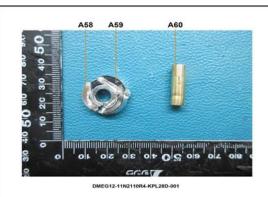


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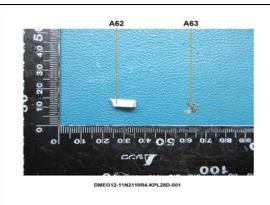
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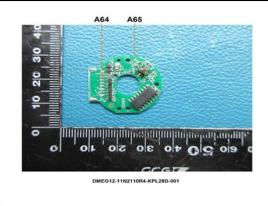














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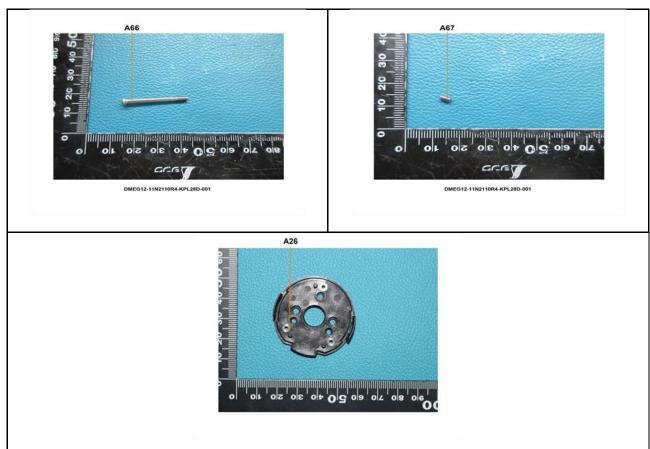
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第18页,共18页



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