

## 检测报告

编号: SHAEC24012121006

日期: 2024 年 06 月 26 日

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客户名称: 江苏捷捷微电子股份有限公司  
客户地址: 江苏省启东市经济开发区钱塘江路 3000 号

样品名称: TO-220A  
客户参考信息: 见附件  
以上样品及信息由客户提供。

SGS 工作编号: SHP24-018118  
样品接收时间: 2024 年 06 月 13 日  
检测周期: 2024 年 06 月 13 日 ~ 2024 年 06 月 26 日  
检测要求: 根据客户要求检测。  
检测方法: 见后续页。  
检测结果: 见后续页。

检测要求	结论
欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规	见检测结果

通标标准技术服务(上海)有限公司  
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Jenny Lan 兰柳珍  
批准签署人

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## 检测报告

编号: SHAEC24012121006

日期: 2024年06月26日

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### 检测结果:

#### 检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA24-0121210-0001.C001	黑色固体

#### 备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

### 欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规

检测方法: SGS 内部方法-采用 GC-MS、GC-NCI-MS, GC-ECD 和 HPLC-DAD-MS 或 LC-MS/MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
四溴二苯醚	40088-47-9 和其它	-	mg/kg	5	ND
五溴二苯醚	32534-81-9 和其它	-	mg/kg	5	ND
六溴二苯醚	36483-60-0 和其它	-	mg/kg	5	ND
七溴二苯醚	68928-80-3 和其它	-	mg/kg	5	ND
十溴二苯醚	1163-19-5	-	mg/kg	5	ND
多溴二苯醚总和*	-	500	mg/kg	-	ND
<b>PFOS 及其盐和 Related 物质</b>					
全氟辛烷磺酸 (PFOS), 及其盐^	1763-23-1	-	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	-	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND
全氟辛基磺酰胺 (PFOSA), 及其盐^	754-91-6	-	mg/kg	0.010	ND
全氟辛烷磺酸(PFOS)及其衍生物	-	1000	mg/kg	-	ND
六氯苯	118-74-1	10	mg/kg	5	ND
五氯苯	608-93-5	禁用	mg/kg	5	ND
多氯联苯 (PCBs)	1336-36-3 和其它	50	mg/kg	5	ND
六溴联苯	36355-01-8	禁用	mg/kg	5	ND
六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6, 134237-51-7,	100	mg/kg	20	ND



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检测项目	CAS No.	限值	单位	MDL	A1
	134237-52-8, 25637-99-4, 3194-55-6				
六氯丁二烯	87-68-3	禁用	mg/kg	5	ND
五氯苯酚(PCP)及其盐和酯	87-86-5 和其它	5	mg/kg	0.5	ND
多氯萘(PCNs)	70776-03-3 和其它	禁用	mg/kg	5	ND
C10-13 氯代烃(短链氯化石蜡) (SCCPs)	85535-84-8 和其它	1500	mg/kg	50	ND
全氟辛酸 (PFOA), 及其盐^	335-67-1	0.025	mg/kg	0.010	ND
<b>PFOA 相关物质</b>					
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS), 及其盐^	39108-34-4	-	mg/kg	0.010	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	-	mg/kg	0.100	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	-	mg/kg	0.100	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA)	27905-45-9	-	mg/kg	0.100	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯 (8:2 FTMA)	1996-88-9	-	mg/kg	0.100	ND
全氟辛基碘烷 (PFOI)	507-63-1	-	mg/kg	0.100	ND
2H,2H-全氟癸酸 (H <sub>2</sub> PFDA/8:2 FTCA), 及其盐^	27854-31-5	-	mg/kg	0.010	ND
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	678-39-7	-	mg/kg	0.100	ND
1-碘-1H,1H,2H,2H-全氟癸烷 (8:2 FTI)	2043-53-0	-	mg/kg	0.100	ND
1H,1H,2H,2H-全氟癸基三乙氧基硅烷 (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	101947-16-4	-	mg/kg	0.100	ND
双[2-(全氟辛基)]乙基磷酸酯(8:2diPAP), 及其盐^	678-41-1	-	mg/kg	0.010	ND
2H,2H,3H,3H-全氟十一烷酸 (H <sub>4</sub> PFUnDA/8:3 FTCA), 及其盐^	34598-33-9	-	mg/kg	0.010	ND
全氟辛基乙烯 (PFDE)	21652-58-4	-	mg/kg	0.100	ND
3-全氟庚基丙酸 (7:3 FTCA)	812-70-4	-	mg/kg	0.010	ND
PFOA 相关化合物总和	-	1.0	mg/kg	-	ND
全氟己基磺酸 (PFHxS), 及其盐^	355-46-4	0.025	mg/kg	0.010	ND
<b>PFHxS 相关化合物</b>					
N-甲基全氟-1-己磺酰胺 (N-Me-PFHxSA)	68259-15-4	1	mg/kg	0.010	ND
全氟己烷磺酰胺 (PFHxSA)	41997-13-1	1	mg/kg	0.010	ND
N-[3-(二甲基氨基)丙基]十三氟己烷磺酰胺 (N-AP-FHxSA)	50598-28-2	1	mg/kg	0.010	ND
2-[甲基[(十三氟己基)磺酰基]氨基]乙基丙烯酸酯 (N-MeFHSEA)	67584-57-0	1	mg/kg	0.500	ND
2-[甲基[(十三氟己基)磺酰基]氨基]乙基甲基丙烯酸酯	67584-61-6	1	mg/kg	0.100	ND



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日期: 2024年06月26日

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检测项目	CAS No.	限值	单位	MDL	A1
2-[乙基[(十三氟己基)磺酰基]氨基]乙基甲基丙烯酸酯	67906-70-1	1	mg/kg	0.100	ND
十三氟-N-(2-羟基乙基)-N-甲基己烷磺酰胺 (MeFHxSE)	68555-75-9	1	mg/kg	0.010	ND
N-乙基-N-[(十三氟己基)磺酰基]甘氨酸 (EtFHxSAA), 及其盐 <sup>^</sup>	68957-32-4	1	mg/kg	0.010	ND
PFHxS 相关化合物总和	-	1	mg/kg	-	ND

**备注:**

- (1) 欧盟POPs法规(EU) 2019/1021, 附录I 中的物质禁用在混合物及物品中使用, 除非法规有特殊豁免。
- (2) 豁免: 四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚在物质中的法规限值是10 mg/kg, 混合物和物品中四溴、五溴、六溴、七溴和十溴二苯醚的总和不得超过500 mg/kg, 该限制应在2021年7月16日之前由委员会审查和评估。
- (3) 豁免: RoHS指令(2011/65/EU)定义的电子电器产品中四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚豁免于POPs法规。
- (4) 豁免: C10-13 氯代烃(短链氯化石蜡)在混合物中的法规限值是1.0% (w/w),在物品中的法规限值为0.15% (w/w)。
- (5) 豁免: 全氟辛烷磺酸 (PFOS)及其衍生物在混合物中的法规限值是10mg/kg, 在物品中的法规限值是0.1% (w/w), 在纺织品和涂层材料中的限值是1µg/m<sup>2</sup>。
- (6) 豁免: HBCDD 做为无意添加的微量污染物, 在物质, 混合物, 物品或者物品的阻燃剂中不能超出100mg/kg。
- (7) 多溴二苯醚总和\*是指四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚的总和。
- (8) <sup>^</sup>=物质是指下表PFOS, PFOA和PFOA相关化合物列出的盐/衍生物。

物质名称	CAS No.
<b>PFOS, 及其盐&amp;衍生物</b>	
全氟辛烷磺酸 (PFOS)	1763-23-1
全氟辛基磺酸钾 (PFOS-K)	2795-39-3
全氟辛基磺酸锂 (PFOS-Li)	29457-72-5
全氟辛基磺酸钠 (PFOS-Na)	4021-47-0
全氟辛基磺酸铵 (PFOS-NH <sub>4</sub> )	29081-56-9
全氟辛基磺酸二乙醇铵 (PFOS-NH <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )	70225-14-8
全氟辛基磺酸四乙基铵 (PFOS-N (C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	56773-42-3
全氟辛基磺酸二癸二甲基铵 (PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> )	251099-16-8
全氟辛基磺酸四丁基铵 (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	111873-33-7
全氟辛基磺酰氟 (PFOS-F)	307-35-7
双[十七氟辛烷磺酸]镁 (PFOS-Mg)	91036-71-4
全氟辛烷磺酸吡啶	71463-74-6
<b>PFOSA, 及其盐</b>	
全氟辛基磺酰胺 (PFOSA)	754-91-6
全氟辛基磺酰胺锂盐 (1:1) (PFOSA-Li)	76752-79-9
全氟辛基磺酰胺钠盐 (1:1) (PFOSA-Na)	76752-78-8



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全氟辛基磺酰胺钾盐 (1:1) (PFOSA-K)	76752-70-0
全氟辛基磺酰胺铵盐 (1:1) (PFOSA-NH <sub>4</sub> )	76752-72-2
<b>PFOA, 及其盐&amp;衍生物</b>	
全氟辛酸 (PFOA)	335-67-1
全氟辛酸钠 (PFOA-Na)	335-95-5
全氟辛酸钾 (PFOA-K)	2395-00-8
全氟辛酸银 (PFOA-Ag)	335-93-3
全氟辛酰氟 (PFOA-F)	335-66-0
全氟辛酸铵 (APFO)	3825-26-1
全氟辛酸锂 (PFOA-Li)	17125-58-5
全氟辛酸钴 (PFOA-Co)	35965-01-6
全氟辛酸铯 (PFOA-Cs)	17125-60-9
全氟辛酸铬 (3+) (PFOA-Cr(3+))	68141-02-6
全氟辛酸-哌嗪 (2:1)PFOA-NH(C <sub>4</sub> H <sub>10</sub> N)	423-52-9
全氟辛酸盐	45285-51-6
全氟辛酸酐	33496-48-9
<b>8:2 FTS, 及其盐</b>	
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS)	39108-34-4
1H,1H,2H,2H-全氟癸磺酸钾 (8:2 FTS-K)	438237-73-1
1H,1H,2H,2H-全氟癸磺酸铵 (8:2 FTS-NH <sub>4</sub> )	149724-40-3
1H,1H,2H,2H-全氟癸磺酸钠 (8:2 FTS-Na)	27619-96-1
<b>H<sub>2</sub>PFDA/8:2 FTCA, 及其盐</b>	
2H,2H-全氟癸酸 (H <sub>2</sub> PFDA/8:2 FTCA)	27854-31-5
四丁基磷2H,2H-全氟癸酸酯 (8:2 FTCA-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	882489-14-7
<b>8:2diPAP, 及其盐</b>	
双[2-(全氟辛基)]乙基磷酸酯 (8:2diPAP)	678-41-1
双[2-(全氟辛基)]乙基磷酸酯钠 (8:2diPAP-Na)	114519-85-6
<b>H<sub>4</sub>PFUnDA/ 8:3 FTCA, 及其盐</b>	
2H,2H,3H,3H-全氟十一烷酸 (H <sub>4</sub> PFUnDA/ 8:3 FTCA)	34598-33-9
2H,2H,3H,3H-全氟十一烷酸钾 (H <sub>4</sub> PFUnDA-K)	83310-58-1

(9) 全氟己烷磺酸(PFHxS)及其盐和相关化合物

(a) 2023年8月8日, 欧盟委员会于欧盟官方公报发布 (EU)2023/1608法规, 修订了2023年5月30日发布的法规 (EU)2019/1021附件I中关于全氟己烷磺酸 (PFHxS)、其盐和PFHxS相关化合物清单。

物质	范围	中间用途或其他规范的特殊豁免	生效日期
PFHxS 及其盐	物质或混合物, 物品	≤ 0.025 mg/kg	2023.8.28
PFHxS相关物质	物质或混合物, 物品	≤ 1 mg/kg (单项或PFHxS相关物质总和)	2023.8.28
PFHxS 及其盐和 PFHxS相关化合物	浓缩消防泡沫混合物	≤ 0.1 mg/kg (3年内进行审查以降低限值)	2023.8.28

(b) 本报告中检测的全氟己烷磺酸(PFHxS)及其盐类和PFHxS相关化合物来自欧洲化学品管理局的“持久性有机污染物官方清单”, 请通过以下网络链接查找更多信息

[List of substances proposed as POPs - ECHA \(europa.eu\)](http://List of substances proposed as POPs - ECHA (europa.eu))



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(c) ^=物质是指下表PFHxS列出的盐/衍生物。

物质名称	CAS No.
<b>PFHxS, 及其盐和衍生物</b>	
全氟己基磺酸 (PFHxS)	355-46-4
全氟己基磺酸钠(PFHxS-Na)	82382-12-5
全氟己基磺酸钾(PFHxS-K)	3871-99-6
全氟己基磺酸锂(PFHxS-Li)	55120-77-9
全氟己基磺酸铵(PFHxS-NH <sub>4</sub> )	68259-08-5
全氟己基磺酸三苯基(苯基甲基)-磷鎓盐 (PFHxS-BTPP)	1000597-52-3
N,N,N-三丁基丁烷-1-胺全氟己基磺酸盐(PFHxS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	108427-54-9
N,N,N-三乙基乙胺全氟己基磺酸盐(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	108427-55-0
全氟己基磺酸与四氢吡咯络合物(PFHxS-NC <sub>4</sub> H <sub>9</sub> )	1187817-57-7
全氟-1-己基磺酸-N-[4-[[4-(二乙氨基)苯基][4-(乙氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-乙基-乙铵盐(PFHxS-(NC <sub>10</sub> H <sub>14</sub> ) <sub>3</sub> C <sub>5</sub> H <sub>4</sub> )	1310480-24-0
全氟-1-己基磺酸-N-[4-[[4-(二甲氨基)苯基][4-(乙氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基-甲基铵盐(PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>13</sub> H <sub>12</sub> )	1310480-27-3
全氟-1-己基磺酸-N-[4-[[4-(二甲氨基)苯基][4-(苯基氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基-甲基铵盐(PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>17</sub> H <sub>12</sub> )	1310480-28-4
全氟己基磺酸与β-环糊精络合物(PFHxS-C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> )	1329995-45-0
全氟己基磺酸与γ-环糊精络合物(PFHxS-C <sub>48</sub> H <sub>80</sub> O <sub>40</sub> )	1329995-69-8
全氟己基磺酸三苯基硫鎓盐(TPS-PFHxS)	144116-10-9
全氟己基磺酸喹啉, 1-(羧甲基)-4-[2-[4-[4-(2,2-二苯基噻吩基)苯基]-1,2,3a,4,8b-六氢环戊并[b]吡啶-7-基]乙烯基]盐(PFHxS-C <sub>44</sub> H <sub>37</sub> N <sub>2</sub> O <sub>2</sub> )	1462414-59-0
全氟己基磺酸二苯基碘鎓盐(PFHxS-I(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> )	153443-35-7
N,N,N-三甲基-全氟己基磺酸甲基铵盐 (PFHxS-TMA)	189274-31-5
全氟己基磺酸与2-甲基-2-丙胺络合物 (PFHxS-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>3</sub> )	202189-84-2
全氟己基磺酸双[4-(1,1-二甲基乙基)苯基]碘鎓盐(PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )	213740-81-9
全氟己基磺酸双(4-甲基苯基)苯基硫鎓盐(PFHxS-S(C <sub>7</sub> H <sub>7</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> )	341548-85-4
全氟己基磺酸(硫代二-4,1-亚苯基)双[二苯基]硫鎓盐 (1:2) (PFHxS-S <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> (C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> )	421555-73-9
全氟己基磺酸镓 (3:1) (PFHxS-Ga)	341035-71-0
全氟己基磺酸铟 (3:1) (PFHxS-Sc)	350836-93-0
全氟己基磺酸铈 (3:1) (PFHxS-Nd)	41184-65-0
全氟己基磺酸钇(3:1) (PFHxS-Y)	41242-12-0
全氟己基磺酸铯(PFHxS-Cs)	92011-17-1
全氟己基磺酸锌(PFHxS-Zn)	70136-72-0
全氟己基磺酸双[4-(1,1-二甲基丙基)苯基]碘鎓盐(1:1)(PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>5</sub> H <sub>11</sub> ) <sub>2</sub> )	421555-74-0
全氟己基磺酸三[4-(1,1-二甲基乙基)苯基]硫鎓盐(PFHxS-S(C <sub>6</sub> H <sub>4</sub> ) <sub>3</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> )	425670-70-8
全氟己基磺酸与2,2'-亚氨基乙醇络合物 (1:1)(PFHxS-NH(C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub> )	70225-16-0
全氟己基磺酸与三乙胺络合物(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	72033-41-1
全氟己基磺酸双[(1,1-二甲基乙基)苯基]碘鎓盐 (1:1)(PFHxS-	866621-50-3



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I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	
全氟己基磺酸(4-甲基苯基)二苯硫鎓盐(PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>7</sub> H <sub>7</sub> )	910606-39-2
全氟己基磺酸[4-[(2-甲基-1-氧代-2-丙烯酰)氧基]苯基]二苯基硫鎓盐(PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>10</sub> H <sub>9</sub> O <sub>2</sub> )	911027-68-4
二苯并[k, n][1,4,7,13]四氧杂硫环戊二烯, 19-[4-(1,1-二甲基乙基)苯基]-6,7,9,10,12,13-六氢-, 全氟己基磺酸盐 (1:1)(PFHxS-SC <sub>28</sub> H <sub>31</sub> O <sub>4</sub> )	928049-42-7
全氟己基磺酰氟 (PFHxS-F)	423-50-7
全氟己基磺酰氯 (PFHxS-Cl)	55591-23-6
[4-[(2-甲基-1-氧代-2-丙烯基)氧基]苯基]二苯基硫与 1,1,2,2,3,3,4,4,5,5,6,6-十三氟-1-己烷磺酸(1:1)的盐与2-乙基三环 [3.3.1.13,7]癸-2-基 2-甲基-2-丙烯酸酯、3-羟基三环[3.3.1.13,7]癸-1- 基 2-甲基-2-丙烯酸酯和四氢-2-氧代-3-咪喃基 2-甲基-2-丙烯酸酯的聚 合物(PFHxS-磺酸酯聚合物)	911027-69-5
全氟己基磺酸盐	108427-53-8
<b>EtFHxSAA, 及其盐</b>	
N-乙基-N-[(十三氟己基)磺酰基]甘氨酸(EtFHxSAA)	68957-32-4
N-乙基-N-[(十三氟己基)磺酰基]甘氨酸钾(EtFHxSAA-K)	67584-53-6
N-乙基-N-[(十三氟己基)磺酰基]甘氨酸钠(EtFHxSAA-Na)	68555-70-4

(10)对POPs物质的分析检测是基于现有的技术, 根据客户要求进行检测。

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日期: 2024年06月26日

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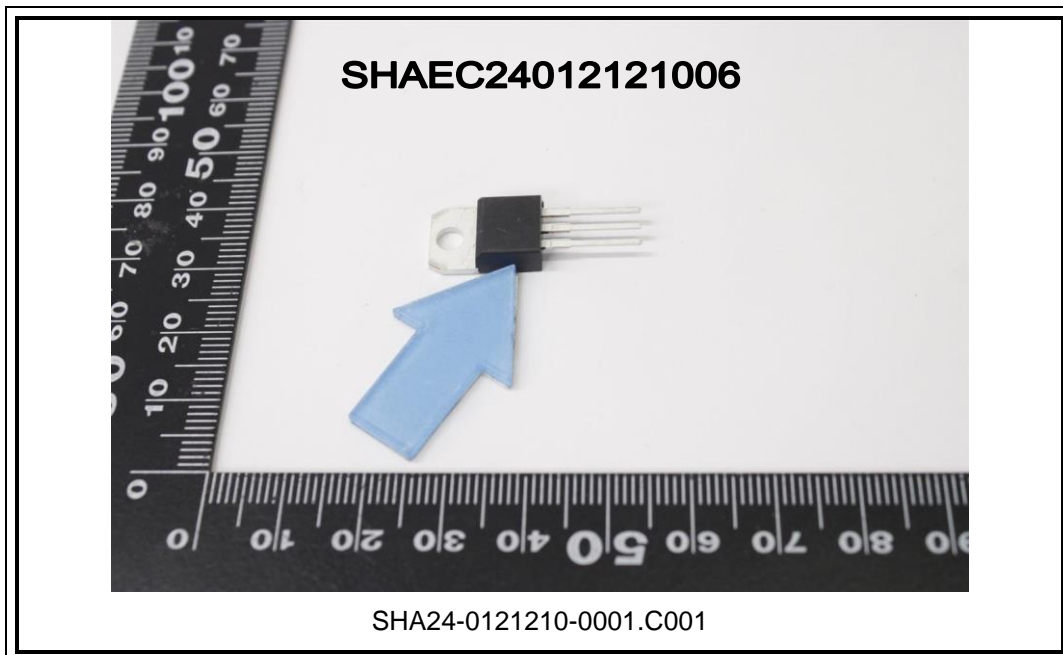
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