

## 检测报告

编号: SHAEC25013262612

日期: 2025 年 06 月 10 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: SHP25-018049  
样品接收时间: 2025 年 06 月 04 日  
检测周期: 2025 年 06 月 04 日 ~ 2025 年 06 月 10 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
氯化石蜡	见检测结果
澳大利亚《2022 年工业化学品环境管理(登记)》及其汇编第 3 号(汇编日期 2024 年 12 月 7 日)附表 6 和附表 7- 多氯三联苯 (PCTs)	符合
SS-00259- 第 22 版- 长链(C9-C21, 包含 C9-C14)全氟羧酸(PFCA)及其盐类及其相关物质	见检测结果

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盛雯舒

Sue Sheng 盛雯舒  
批准签署人

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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	SHA25-0132626-0001.C001	黑色固体

## 备注:

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

## 氯化石蜡

检测方法: 参考 ISO 22818:2021, 采用 GC-NCI-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
中链氯化石蜡(MCCP) (C14-C17)	85535-85-9	mg/kg	50	ND

澳大利亚《2022 年工业化学品环境管理(登记)》及其汇编第 3 号(汇编日期 2024 年 12 月 7 日)附表 6 和附表 7- 多氯三联苯 (PCTs)

检测方法: SGS 内部方法, 采用 GC-ECD/GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
多氯三联苯 (PCTs)	61788-33-8	2	mg/kg	2	ND
结论	符合				

**SS-00259- 第 22 版- 长链(C9-C21, 包含 C9-C14)全氟羧酸(PFCA)及其盐类及其相关物质**

检测方法: 优化的 EN 17681-1:2022 和 EN 17681-2:2022, 采用 LC-MS 或 LC-MS/MS 和 GC-MS 或 GC-MS/MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
<b>C9-C14 PFCA, 及其盐</b>				
全氟壬酸 (PFNA), 及其盐 <sup>^</sup>	375-95-1	mg/kg	0.010	ND
全氟癸酸 (PFDA), 及其盐 <sup>^</sup>	335-76-2	mg/kg	0.010	ND
全氟十一烷酸 (PFUnDA), 及其盐 <sup>^</sup>	2058-94-8	mg/kg	0.010	ND
全氟十二烷酸 (PFDoDA), 及其盐 <sup>^</sup>	307-55-1	mg/kg	0.010	ND
全氟十三烷酸 (PFTTrDA), 及其盐 <sup>^</sup>	72629-94-8	mg/kg	0.010	ND
全氟十四烷酸 (PFTDA), 及其盐 <sup>^</sup>	376-06-7	mg/kg	0.010	ND
全氟-3, 7-二甲基辛酸 (PF-3, 7-DMOA)	172155-07-6	mg/kg	0.010	ND
C9-C14 PFCA 及其盐总和	-	mg/kg	-	ND
<b>C9-C14 PFCA 相关物质</b>				



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检测项目	CAS No.	单位	MDL	A1
全氟癸烷磺酸 (PFDS), 及其盐 <sup>^</sup>	335-77-3	mg/kg	0.010	ND
1H, 1H, 2H, 2H-全氟-1-十二烷醇 (10:2 FTOH)	865-86-1	mg/kg	0.100	ND
1H, 1H, 2H, 2H-全氟十二烷基丙烯酸酯 (10:2 FTA)	17741-60-5	mg/kg	0.100	ND
2-(全氟癸基)甲基丙烯酸乙酯 (10:2 FTMA)	2144-54-9	mg/kg	0.100	ND
1, 1, 2, 2-四氢全氟-1-十四醇 (12:2 FTOH)	39239-77-5	mg/kg	0.100	ND
1H, 1H, 2H, 2H-全氟十二烷磺酸 (10:2 FTS), 及其盐 <sup>^</sup>	120226-60-0	mg/kg	0.100	ND
全氟癸基乙基碘 (10:2 FTI)	2043-54-1	mg/kg	0.100	ND
1H, 1H, 2H, 2H-全氟四环碘化物 (12:2 FTI)	30046-31-2	mg/kg	0.100	ND
全氟壬烷磺酸 (PFNS), 及其盐 <sup>^</sup>	68259-12-1	mg/kg	0.010	ND
全氟十一烷磺酸 (PFUnDS), 及其盐 <sup>^</sup>	749786-16-1	mg/kg	0.010	ND
全氟十二烷磺酸 (PFDoDS), 及其盐 <sup>^</sup>	79780-39-5	mg/kg	0.010	ND
全氟十三烷磺酸 (PFTrDS), 及其盐 <sup>^</sup>	791563-89-8	mg/kg	0.010	ND
双[2-(全氟癸基)乙基]磷酸盐 (10:2 diPAP), 及其盐 <sup>^</sup>	1895-26-7	mg/kg	0.100	ND
1-碘全氟癸烷 (PFDI)	423-62-1	mg/kg	0.100	ND
全氟碘代十二烷 (PFDODI)	307-60-8	mg/kg	0.100	ND
2H-全氟-2-十二烯酸 (10:2 FTUCA)	70887-94-4	mg/kg	0.100	ND
2-全氟癸基乙酸 (10:2 FTCA)	53826-13-4	mg/kg	0.100	ND
1H,1H,2H,2H-全氟癸基乙酸酯 (10:2 FTOAc)	37858-05-2	mg/kg	0.100	ND
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS), 及其盐 <sup>^</sup>	39108-34-4	mg/kg	0.010	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
2H,2H-全氟癸酸 (8:2 FTCA), 及其盐 <sup>^</sup>	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 <sup>^</sup>	678-41-1	mg/kg	0.010	ND
2H,2H,3H,3H-全氟十一烷酸(8:3 FTCA), 及其盐 <sup>^</sup>	34598-33-9	mg/kg	0.010	ND
全氟辛基乙烯 (PFDE)	21652-58-4	mg/kg	0.100	ND
1H,1H,2H,2H-全氟癸基三氯硅烷 (8:2 FTSiCl <sub>3</sub> )/1H,1H,2H,2H-全氟癸基三甲氧基硅烷 (8:2 FTSi(OCH <sub>3</sub> ) <sub>3</sub> )	78560-44-8 /83048-65-1	mg/kg	0.100	ND

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检测项目	CAS No.	单位	MDL	A1
1H,1H,2H,2H-全氟十二烷基乙酸酯 (8:2 FTOAc)	37858-04-1	mg/kg	0.100	ND
单[2-(全氟辛基)乙基]磷酸盐 (8:2 monoPAP), 及其盐 <sup>^</sup>	57678-03-2	mg/kg	0.100	ND
单[2-(全氟癸基)乙基]磷酸酯 (10:2 monoPAP), 及其盐 <sup>^</sup>	57678-05-4	mg/kg	0.100	ND
N-(4,4,5,5,6,6,7,7,8,8,9,9-十三氟壬基)碘乙酰胺	852527-50-5	mg/kg	0.010	ND
C9-C14 PFCA 相关物质总和	-	mg/kg	-	ND
全氟十六烷酸 (PFHxDA)	67905-19-5	mg/kg	0.010	ND
全氟十八烷酸 (PFODA)	16517-11-6	mg/kg	0.010	ND
全氟十五烷酸 (PFPeDA)	141074-63-7	mg/kg	0.010	ND
全氟十七烷酸 (PFHpDA)	57475-95-3	mg/kg	0.100	ND
全氟十九烷酸 (PFNDA)	133921-38-7	mg/kg	0.100	ND
全氟二十烷酸 (PFECA)	68310-12-3	mg/kg	0.100	ND
全氟二十一烷酸 (PFHEA)	-	mg/kg	0.100	ND

## 备注:

(1) <sup>^</sup>=物质是指附表中列出的盐/衍生物。

物质名称	CAS No.
<b>PFNA, 及其盐</b>	
全氟壬酸 (PFNA)	375-95-1
全氟壬酸钠 (PFNA-Na)	21049-39-8
全氟壬酸铵 (PFNA-NH <sub>4</sub> )	4149-60-4
全氟壬酸钾 (PFNA-K)	21049-38-7
全氟壬酸锂 (PFNA-Li)	60871-92-3
全氟壬酸银 (PFNA-Ag)	7358-16-9
全氟壬酸甲铵(PFNA-NH <sub>3</sub> (CH <sub>3</sub> ))	77032-23-6
全氟壬酸-N-乙基乙胺(1:1) (PFNA-NH <sub>2</sub> (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> )	77032-27-0
全氟壬酸-N-甲基甲胺(1:1) (PFNA-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> )	77032-24-7
全氟壬酸-N, N-二乙基乙酰胺(1:1) (9CI) (PFNA-NH(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	327176-80-7
全氟壬酸-哌啶(1:1) (9CI) (PFNA-NH <sub>2</sub> (C <sub>5</sub> H <sub>10</sub> ))	95682-66-9
全氟壬酸-苯胺(1:1) (PFNA-NH <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> ))	95682-67-0
全氟壬酸-环己胺(1:1) (9CI) (PFNA-NH <sub>3</sub> (C <sub>6</sub> H <sub>11</sub> ))	328531-06-2
全氟壬酸盐	72007-68-2
全氟壬酸磺胺甲氧基哒嗪(PFNA-C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S)	298703-33-0
全氟壬酸酐(PFNAA)	228407-54-3
<b>PFDA, 及其盐</b>	
全氟癸酸 (PFDA)	335-76-2
全氟癸酸钠 (PFDA-Na)	3830-45-3
全氟癸酸铵 (PFDA-NH <sub>4</sub> )	3108-42-7
全氟癸酸钾 (PFDA-K)	51604-85-4
全氟癸酸银 (PFDA-Ag)	5784-82-7



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全氟癸酸锂 (PFDA-Li)	84743-32-8
全氟癸酸盐	73829-36-4
全氟癸酸酐(PFDAA)	942199-24-8
<b>PFUnDA, 及其盐</b>	
全氟十一烷酸 (PFUnDA)	2058-94-8
全氟十一烷酸钠 (PFUnDA-Na)	60871-96-7
全氟十一烷酸铵 (PFUnDA-NH <sub>4</sub> )	4234-23-5
全氟十一烷酸钾 (PFUnDA-K)	30377-53-8
全氟十一烷酸钙 (PFUnDA-Ca)	97163-17-2
全氟十一烷酸盐	196859-54-8
<b>PFDoDA, 及其盐</b>	
全氟十二烷酸 (PFDoDA)	307-55-1
全氟十二烷铵 (PFDoDA-NH <sub>4</sub> )	3793-74-6
全氟十二烷酸盐	171978-95-3
<b>PFTrDA, 及其盐</b>	
全氟十三烷酸 (PFTrDA)	72629-94-8
全氟十三烷酸铵 (PFTrDA-NH <sub>4</sub> )	4288-72-6
全氟十三烷酸钠(PFTrDA -Na)	60872-01-7
全氟十三烷酸盐	862374-87-6
<b>PFTDA, 及其盐</b>	
全氟十四烷酸 (PFTDA)	376-06-7
全氟十四烷酸盐	365971-87-5
<b>PFDS, 及其盐</b>	
全氟癸烷磺酸 (PFDS)	335-77-3
全氟癸烷磺酸钠 (PFDS-Na)	2806-15-7
全氟癸烷磺酸钾 (PFDS-K)	2806-16-8
全氟癸基磺酸铵 (PFDS-NH <sub>4</sub> )	67906-42-7
全氟癸基磺酸盐	126105-34-8
全氟癸烷磺酸酐 (PFDSA)	51667-62-0
<b>PFNS, 及其盐</b>	
全氟壬烷磺酸 (PFNS)	68259-12-1
全氟壬烷磺酸钠 (PFNS-Na)	98789-57-2
全氟壬烷磺酸铵 (PFNS-NH <sub>4</sub> )	17202-41-4
全氟磺酸钾 (PFNS-K)	29359-39-5
全氟壬烷磺酸盐	474511-07-4
<b>PFUnDS, 及其盐</b>	
全氟十一烷磺酸(PFUnDS)	749786-16-1
全氟十一烷磺酸盐	441296-91-9
<b>PFDoDS, 及其盐</b>	
全氟十二烷磺酸 (PFDoDS)	79780-39-5
全氟十二烷磺酸钠 (PFDoDS-Na)	1260224-54-1
全氟十二烷磺酸钾(PFDoDS-K)	85187-17-3
全氟十二烷磺酸盐	343629-43-6



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<b>PFTrDS, 及其盐</b>	
全氟十三烷磺酸 (PFTrDS)	791563-89-8
全氟十三烷磺酸钠 (PFTrDS-Na)	174675-49-1
<b>10:2 diPAP, 及其盐</b>	
双[2-(全氟癸基)乙基]磷酸盐(10:2 diPAP)	1895-26-7
2,2'-亚氨基二乙醇双[2-(全氟癸基)乙基磷酸盐] (10:2 diPAP-C <sub>4</sub> H <sub>11</sub> O <sub>2</sub> )	57677-98-2
<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
1H,1H,2H,2H-全氟癸磺酸盐 (8:2 FTS(anion))	481071-78-7
<b>8:2 FTCA, 及其盐</b>	
2H,2H-全氟癸酸 (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>8:2 diPAP, 及其盐</b>	
双[2-(全氟辛基)]乙基磷酸酯 (8:2 diPAP)	678-41-1
双[2-(全氟辛基)]乙基磷酸酯钠 (8:2 diPAP-Na)	114519-85-6
双(2-羟乙基)铵双(全氟辛基)乙基磷酸氢	57677-97-1
双[2-(全氟辛基)]乙基磷酸酯铵盐 (8:2 diPAP-NH <sub>4</sub> )	93776-20-6
8:2氟调聚物磷酸二酯离子	1411713-91-1
<b>8:3 FTCA, 及其盐</b>	
2H,2H,3H,3H-全氟十一烷酸 (8:3 FTCA)	34598-33-9
2H,2H,3H,3H-全氟十一烷酸钾 (8:3 FTCA-K)	83310-58-1
2H,2H,3H,3H-全氟十一酸锂 (8:3 FTCA-Li)	67304-23-8
<b>8:2 monoPAP, 及其盐</b>	
单[2-(全氟辛基)乙基]磷酸盐 (8:2 monoPAP)	57678-03-2
8:2氟调聚物磷酸二铵盐	93857-44-4
8:2氟调聚物磷酸钠盐	438237-75-3
双[2-(全氟辛基)乙基]磷酸铵盐	1764-95-0
单[2-(全氟辛基)乙基]磷酸铵盐	92401-44-0
单[2-(全氟辛基)乙基]磷酸单钠盐	144965-22-0
单[2-(全氟辛基)乙基]磷酸单钾盐	150033-28-6
单[2-(全氟辛基)乙基]磷酸氢铵盐	2353-52-8
<b>10:2 monoPAP, 及其盐</b>	
单[2-(全氟癸基)乙基]磷酸酯 (10:2 monoPAP)	57678-05-4
单[2-(全氟癸基)乙基]磷酸双铵盐	93857-45-5

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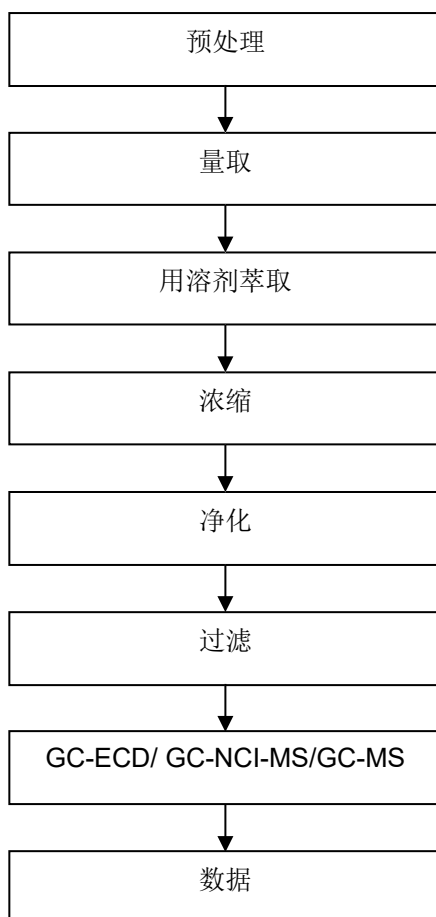
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## 氯化石蜡检测流程图



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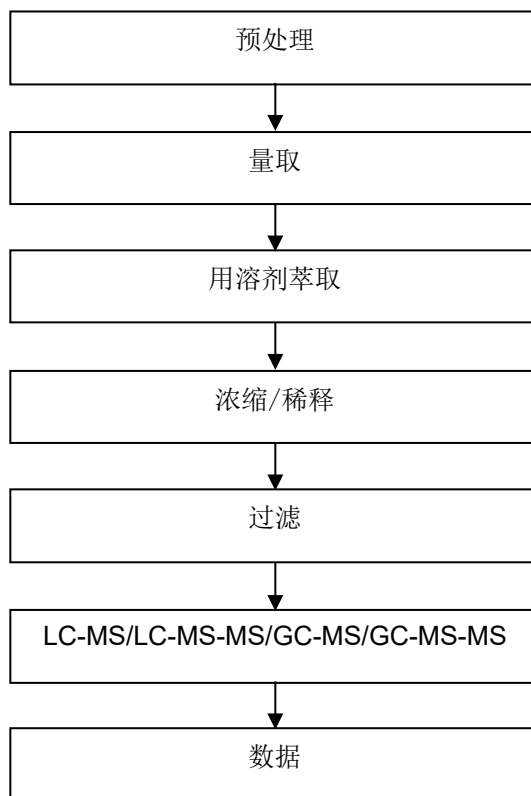
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## PFASs/ PFOS/PFOA 检测流程图



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编号: SHAEC25013262612

日期: 2025 年 06 月 10 日

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附件:

402、603、2510、62mm、ABS、DBS、DFN0603-2L、DFN1006-2L、DFN1006-3L、DFN10x15-5L、DFN10x15-5L-XX、DFN1610-2L、DFN1610-6L、DFN2010-5L、DFN2010-8L、DFN2020-2L、DFN2020-3L、DFN2020-6L、DFN2020-6L-XX、DFN2020-8L、DFN2510-10L、DFN2626-10L、DFN2x2-3L、DFN2x2-6L、DFN2x2-6L-D、DFN2x2-6L-XX、DFN3.0x3.0-8L、DFN3.0x3.0-8L-SD (Type、B)、DFN3.3x3.3-8L-XX、DFN3.0x3.0-8L-XX、DFN3.3x3.3-8L、DFN3.3x3.3-8L (Type、B)、DFN3.3x3.3-8L-XX、DFN3020-10L、DFN3030-8L、DFN3030-8L-XX、DFN3030-12L、DFN3333-2L、DFN3333-8L、DFN3810-9L、DFN3x3-8L-XX、DFN4120-10L、DFN5060-8L、DFN5060-8L-XX、DFN5515-18L、DFN5x6-8L、DFN5x6-8L(Dual)、DFN5x6-8L-XX、DFN8080-2L、DFN8080-4L、DFN8x8-2L、DFN8x8-4L、DFN8x8-4L-XX、DIP-4、DIP-5、DO-15、DO-218AB、DO-27、DO-41、DriveJM-34、DriveJM-62、DriveJM-DC、DriveJM-E1、DriveJM-E2、DriveJM-EC、DriveJM-ED、DriveJM-H1、DriveJM-H2、EasyPack1B、EconoDual、ESOP-8、F3、FBP-02C-A、GBJ、GBL、GBU、IGBT-34mm、ITO-247、ITO-247-XX、KBL、KBP、LSOP-4、MBF、MBS、P6、PDFN3.3x3.3-8L、PDFN3.3x3.3-8L-XX、PDFN3x3-8L、PDFN3x3-8L-XX、PDFN5x6-8L、PDFN5x6-8L-XX、PowerJE10x12、PowerJE5x6、PowerJE7x8、PowerJE8x8、PPTC、R6、SGBJ、SGD0201、SGD0402、SMA、SMAF、SMB、SMBF、SMC、SMC-3、SMD-3225、SMD-4032、SMD-5、SMT、SMT-4、SMTF、SMTJ、SMTO-218Tab、SOD-123、SOD-123FL、SOD-123FLT、SOD-323、SOD-323F、SOD-323FL、SOD-523、SOD-723、SOD-923、SOP-10、SOP-16、SOP-4、SOP-5、SOP-7、SOP-8、SOT-143、SOT-143-XX、SOT-223、SOT-223-XX、SOT-227、SOT-227-XX、SOT-23、SOT-23-XX、SOT-323、SOT-323-XX、SOT-353、SOT-353-XX、SOT-363、SOT-363-XX、SOT-523、SOT-523-XX、SOT-563、SOT-563-XX、SOT-723、SOT-723-XX、SOT-82、SOT-89、SOT-89R-XX、SOT-89-XX、SSOP-16、SSOP-4、STOLL7x8-5L、T2B、TO-126、TO-202、TO-202-XX、TO-220A、TO-220A-2D-XX、TO-220AB、TO-220A-XX、TO-220B、TO-220B-XX、TO-220C、TO-220C-XX、TO-220F、TO-220FA、TO-220FA-XX、TO-220FP、TO-220FP-XX、TO-220HF、TO-220H-XX、TO-220MF-3L、TO-220-XX、TO-247、TO-247-XX、TO-247i-XX、TO-247iL-XX、TO-247iPS-XX、TO-247J、TO-247J-XX、TO-247plus、TO-247S、TO-247S-XX、TO-251、TO-251L-XX、TO-251S、TO-251-XX、TO-252、TO-252-XX、TO-262、TO-262-XX、TO-263、TO-263-XX、TO-277B、TO-3P、TO-3P-3L、TO-3PF-3L、TO-3PN-3L、TO-92、TO-92CR、TO-92KR、TO-92KRF、TO-92UR、TO-92-XX、TOLL9.9x10.38-8L、TSSOP-8、TSSOP-8、WSOP-6



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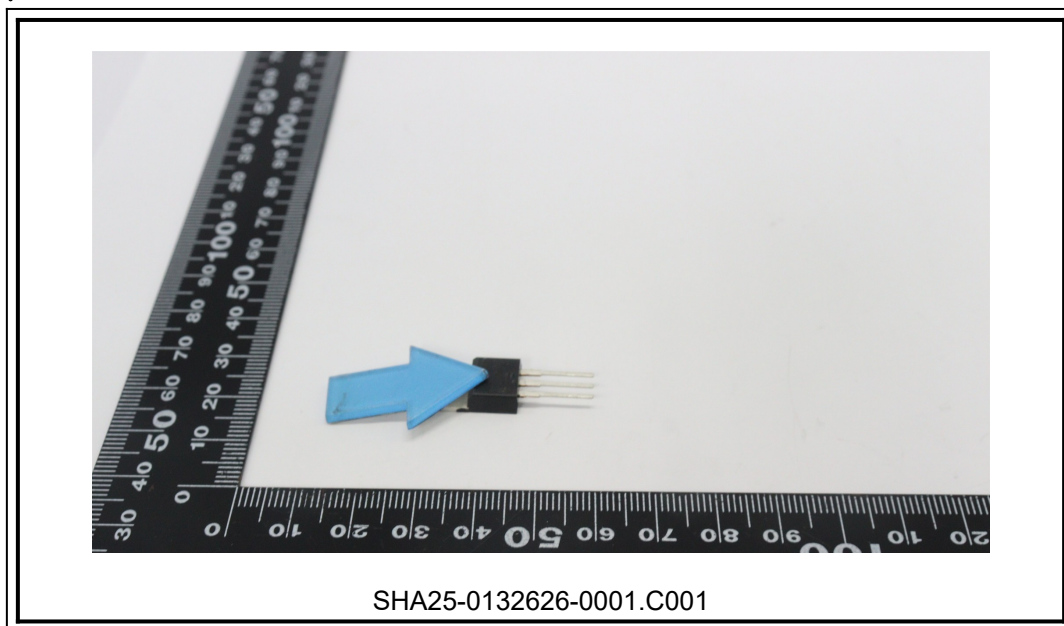
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