

检测报告

编号: SHAEC26014293210

日期: 2026年05月28日

第1页, 共11页

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: SHP26-017926
样品接收时间: 2026年05月20日
检测周期: 2026年05月20日~2026年05月28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4号(汇编日期2025年6月26日)附表6和附表7-多氯三联苯(PCTs)	符合
有害物质禁用法规(SOR/2025-270)-长链(C9-C21, 包含C9-C14)全氟羧酸(PFCA)及其盐类及其相关物质	符合

通标标准技术服务(上海)有限公司
授权签名

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Chemical Laboratory

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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	SHA26-0142932-0001.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
短链氯化石蜡(SCCP) (C10-C13)	85535-84-8	mg/kg	50	ND
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4号(汇编日期2025年6月26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

有害物质禁用法规(SOR/2025-270) - 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 17681-1:2025, 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.	限值	单位	MDL	A1
C9-C14 PFCA, 及其盐					
全氟壬酸(PFNA), 及其盐 [^]	375-95-1	-	mg/kg	0.010	ND
全氟癸酸(PFDA), 及其盐 [^]	335-76-2	-	mg/kg	0.010	ND
全氟十一烷酸(PFUnDA), 及其盐 [^]	2058-94-8	-	mg/kg	0.010	ND
全氟十二烷酸(PFDoDA), 及其盐 [^]	307-55-1	-	mg/kg	0.010	ND
全氟十三烷酸(PFTrDA), 及其盐 [^]	72629-94-8	-	mg/kg	0.010	ND
全氟十四烷酸(PFTDA), 及其盐 [^]	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	-	禁用	mg/kg	-	ND
C9-C14 PFCA 相关物质					



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检测项目	CAS No.	限值	单位	MDL	A1
全氟癸烷磺酸 (PFDS), 及其盐 [^]	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
1H, 1H, 2H, 2H-全氟十二烷基甲基丙烯酸酯 (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 [^]	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-全氟十四烷基碘 (12:2 FTI)	30046-31-2	-	mg/kg	0.100	ND
全氟壬烷磺酸 (PFNS), 及其盐 [^]	68259-12-1	-	mg/kg	0.010	ND
全氟十一烷磺酸 (PFUnDS), 及其盐 [^]	749786-16-1	-	mg/kg	0.010	ND
全氟十二烷磺酸 (PFDoDS), 及其盐 [^]	79780-39-5	-	mg/kg	0.010	ND
全氟十三烷磺酸 (PFTrDS), 及其盐 [^]	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 [^]	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	0.010	ND
2-全氟癸基乙酸 (10:2 FTCA)	53826-13-4	-	mg/kg	0.010	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 [^]	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 [^]	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 ₂ H ₅) ₃)	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(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
1H, 1H, 2H, 2H-全氟癸基三氯硅烷 (8:2 FTSiCl ₃)/1H, 1H, 2H, 2H-全氟癸基三甲氧基硅烷 (8:2 FTSi(OCH ₃) ₃)	78560-44-8 /83048-65-1	-	mg/kg	0.100	ND



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检测项目	CAS No.	限值	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 [^]	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 [^]	57678-05-4	-	mg/kg	0.100	ND
2H-全氟-2-癸烯酸 (8:2 FTUCA)	70887-84-2	-	mg/kg	0.010	ND
((全氟辛基)乙基)磷酸	80220-63-9	-	mg/kg	0.020	ND
C9-C14 PFCA 相关物质的总和	-	禁用	mg/kg	-	ND
全氟十五烷酸 (PFPeDA)	141074-63-7	禁用	mg/kg	0.010	ND
全氟十六烷酸 (PFHxDA)	67905-19-5	禁用	mg/kg	0.010	ND
全氟十七烷酸 (PFHpDA)	57475-95-3	禁用	mg/kg	0.010	ND
全氟十八烷酸 (PFODA)	16517-11-6	禁用	mg/kg	0.010	ND
全氟十九烷酸 (PFNDA)	133921-38-7	禁用	mg/kg	0.010	ND
全氟二十烷酸 (PFECA)	68310-12-3	禁用	mg/kg	0.010	ND
全氟二十一烷酸 (PFHEA)	2920913-30-8	禁用	mg/kg	0.010	ND
结论					符合

备注:

(1) [^]=物质是指附表中列出的盐/衍生物。

物质名称	CAS No.
PFNA, 及其盐	
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 ₄)	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
全氟壬酸甲烷铵 (PFNA-NH ₃ (CH ₃))	77032-23-6
全氟壬酸-N-乙基乙胺(1:1) (PFNA-NH ₂ (C ₂ H ₅) ₂)	77032-27-0
全氟壬酸-N-甲基甲胺(1:1) (PFNA-NH ₂ (CH ₃) ₂)	77032-24-7
全氟壬酸-N, N-二乙基乙酰胺(1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7
全氟壬酸-哌啶(1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9
全氟壬酸-苯胺(1:1) (PFNA-NH ₃ (C ₆ H ₅))	95682-67-0
全氟壬酸-环己胺(1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2
全氟壬酸盐	72007-68-2
全氟壬酸磺胺甲氧基哒嗪 (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S)	298703-33-0
全氟壬酸酐 (PFNAA)	228407-54-3
全氟壬酰氯 (PFNA-Cl)	52447-23-1
全氟壬酰氟 (PFNA-F)	558-95-2



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全氟壬酰溴(PFNA-Br)	261503-42-8
PFDA, 及其盐	
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 ₄)	3108-42-7
全氟癸酸钾 (PFDA-K)	51604-85-4
全氟癸酸银 (PFDA-Ag)	5784-82-7
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
全氟癸酰氯(PFDA-Cl)	307-38-0
全氟癸酰氟(PFDA-F)	--
PFU_nDA, 及其盐	
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 ₄)	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
PFDoDA, 及其盐	
全氟十二烷酸 (PFDoDA)	307-55-1
全氟十二烷铵 (PFDoDA-NH ₄)	3793-74-6
全氟十二烷酸盐	171978-95-3
PFTrDA, 及其盐	
全氟十三烷酸 (PFTrDA)	72629-94-8
全氟十三烷酸铵 (PFTrDA-NH ₄)	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
PFTDA, 及其盐	
全氟十四烷酸 (PFTDA)	376-06-7
全氟十四烷酸盐	365971-87-5
PFDS, 及其盐	
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 ₄)	67906-42-7
全氟癸基磺酸盐	126105-34-8
全氟癸烷磺酸酐 (PFDSA)	51667-62-0



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全氟癸烷磺酰氟(PFDS-F)	307-51-7
全氟癸烷磺酰氯(PFDS-Cl)	32779-61-6
10:2 FTS, 及其盐	
1H,1H,2H,2H-全氟十二烷磺酸(10:2 FTS)	120226-60-0
1H,1H,2H,2H-全氟十二烷磺酸钠 (10:2 FTS-Na)	108026-35-3
1H,1H,2H,2H-全氟十二烷磺酰氯(10:2 FTS-Cl)	27619-91-6
PFNS, 及其盐	
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 ₄)	17202-41-4
全氟磺酸钾 (PFNS-K)	29359-39-5
全氟壬烷磺酸盐	474511-07-4
全氟壬烷磺酰氟(PFNS-F)	68259-06-3
PFUnDS, 及其盐	
全氟十一烷磺酸(PFUnDS)	749786-16-1
全氟十一烷磺酸盐	441296-91-9
PFDoDS, 及其盐	
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
PFTrDS, 及其盐	
全氟十三烷磺酸 (PFTrDS)	791563-89-8
全氟十三烷磺酸钠 (PFTrDS-Na)	174675-49-1
10:2 diPAP, 及其盐	
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 ₄ H ₁₁ O ₂)	57677-98-2
8:2 FTS, 及其盐	
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 ₄)	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
1H,1H,2H,2H-全氟癸磺酰氯 (8:2 FTS-Cl)	27619-90-5
8:2 FTCA, 及其盐	
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 ₄ H ₉) ₄)	882489-14-7



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8:2 diPAP, 及其盐	
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 ₄)	93776-20-6
8:2氟调聚物磷酸二酯离子	1411713-91-1
8:3 FTCA, 及其盐	
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
8:2 monoPAP, 及其盐	
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
10:2 monoPAP, 及其盐	
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
二十一氟十二烷基磷酸二氢酯环己铵盐	2514858-66-1

(2) 结论仅针对报告上的物质清单。

(3) 全氟十五烷酸, 全氟十七烷酸, 全氟十九烷酸, 全氟二十烷酸, 全氟二十一烷酸检测结果采用碳链数接近的全氟烷酸半定量。

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。
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 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。



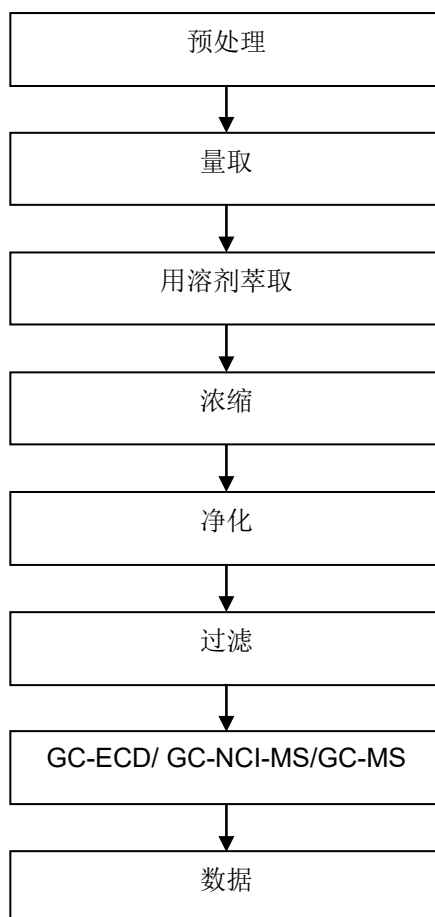
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氯化石蜡检测流程图



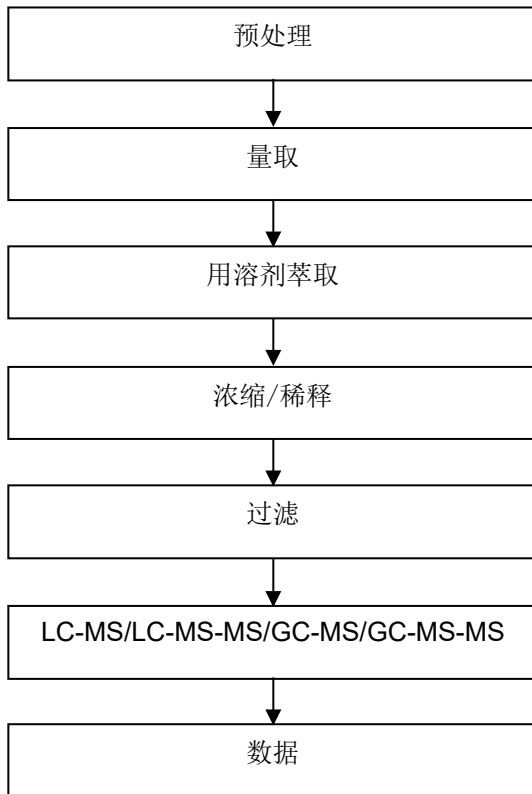
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PFASs/ PFOS/PFOA 检测流程图



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检测报告

编号: SHAEC26014293210

日期: 2026年05月28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、LFPK5x6-8L、LSOP-4、MBF、MBS、P6、PDFN3.3x3.3-8L、PDFN3.3x3.3-8L-XX、PDFN3x3-8L、PDFN3x3-8L-XX、PDFN5x6-8L、PDFN5x6-8L-XX、PDFN5x7-10L-XX、PowerJE10x12、PowerJE5x6、PowerJE7x8、PowerJE8x8、PPTC、R6、SGBJ、SGD0201、SGD0402、SMA、SMAF、SMAW、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、SOP-8-XX、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、TOLT、TSSOP-8、TSSOP-8、WSOP-6



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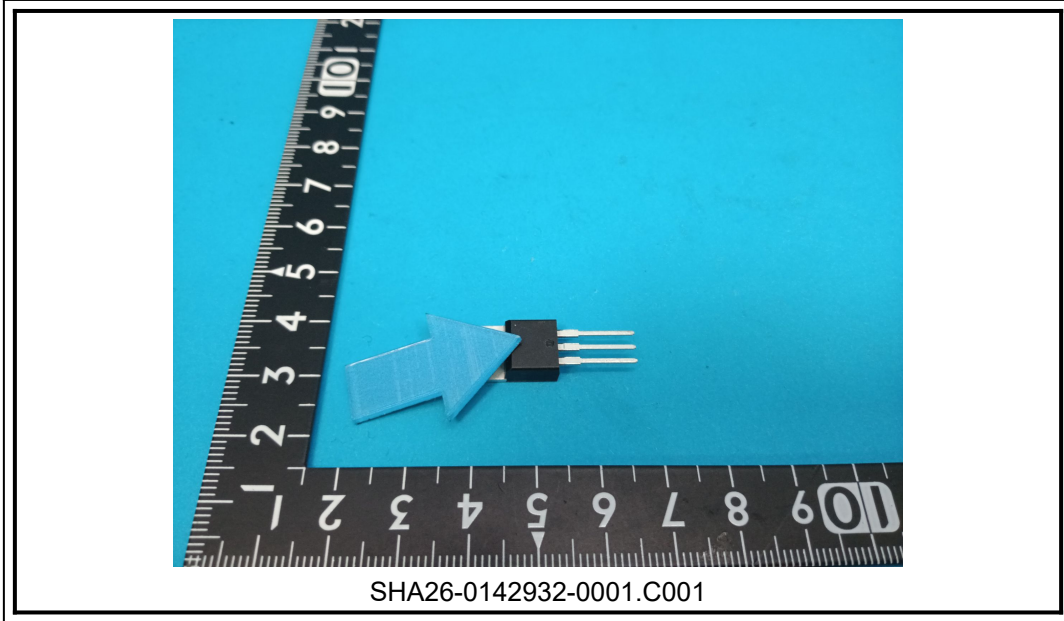
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编号: SHAEC26014293210

日期: 2026 年 05 月 28 日

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