



Test Report

Report No: TQT1057N10E-R1

Date: Dec. 22, 2025

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Applicant: APSEMI (SHENZHEN) Co.,Ltd
Address: Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China
Manufacturer: APSEMI (SHENZHEN) Co.,Ltd
Address: Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name : PHOTO MOS RELAY, OPTOMOS RELAY, PHOTO COUPLER
Main Test Model : APY/GAQY210 Series
Additional Model : APY/ADY/GAQY/OPT0 Series, APV/ADV/GAQV/OPT1 Series, APW/ADW/GAQW/OPT2 Series, APH/APS/APC/APM Series, APPL/ATLP/ALP/AEL Series, 4N/6N/CNY/MOC Series.
Sample Received Date : Dec. 08, 2025
Testing Period : Dec. 08, 2025 To Dec. 22, 2025
Test Requested : As specified by client, to determine 28 substances under Regulation (EU) 2019/1021 of POPs and its amended regulation in the submitted sample(s).
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).

Signed for and on behalf of:

Liw wang/Manager Date of issue : Dec. 22, 2025

Shenzhen Tianqi Testing Technology Service Co., Ltd.

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Sample Description:

Sample No.	Sample Description
1	Metal Pin
2	Photomos Relay

Test Results:

Test method: EPA 3540C:1996

Analysis was performed by GC-MS, LC-MS/MS

No.	Test Item	CAS No.	MDL(%)	Limit(%)
1	Tetrabromodiphenyl ether*	40088-47-9	0.001	Substances≤0.001
2	Pentabromodiphenyl ether*	32534-81-9	0.001	Substances≤0.001
3	Hexabromodiphenyl ether*	36483-60-0	0.001	Substances≤0.001
4	Heptabromodiphenyl ether*	117948-63-7 207122-16-5	0.001	Substances≤0.001
5	Bis(pentabromophenyl) ether *	1163-19-5	0.001	Substances≤0.001
6	Perfluorooctane sulfonic acid and its derivatives (PFOS)	1763-23-1	0.001/ 0.5 µg/m2	Substances/Mixtures≤0.001, Semi-finished products/Articles<0.1, Coating/textile<1 µg/m2
7	DDT(I,I,I-trichloro-2,2-bis(4-chlorophenyl)ethane)	50-29-3	0.001	Prohibitions
8	Chlordane	57-74-9	0.005	Prohibitions
9	Hexachlorocyclohexanes, including lindan	58-89-9 319-84-6 319-85-7 608-73-1	0.005	Prohibitions
10	Dieldrin	60-57-1	0.005	Prohibitions
11	Endrin	72-20-8	0.005	Prohibitions
12	Heptachlor	76-44-8	0.005	Prohibitions
13	Endosulfan	115-29-7 959-98-8 33213-65-9	0.005	Prohibitions
14	Hexachlorobenzene	118-74-1	0.005	Prohibitions
15	Chlordecone	143-50-0	0.005	Prohibitions
16	Aldrin	309-00-2	0.005	Prohibitions
17	Pentachlorobenzene	608-93-5	0.005	Prohibitions
18	Polychlorinated Biphenyls(PCBs)	1336-36-3	0.001	0.005
19	Mirex	2385-85-5	0.001	Prohibitions
20	Toxaphene	8001-35-2	0.005	Prohibitions

Sum
≤0.05

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21	Hexabromobiphenyl	36355-01-08	0.001	Prohibitions
22	Hexabromocyclododecane (HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	0.001	<0.01
23	Hexachlorobutadiene	87-68-3	0.001	Prohibitions
24	Pentachlorophenol and its salts and esters	87-86-5 and others	0.005	Prohibitions
25	Polychlorinated naphthalenes(PCNs)	70776-03-3 and others	0.001	Prohibitions
26	Alkanes C10-C13, chloro (shortchain chlorinated paraffins) (SCCPs)	85535-84-8	0.010	Substances/Mixtures <1,Articles <0.15
27	Perfluorooctanoic acid(PFOA), its salts and PFOA-related compounds	335-67-1 and others	0.01 mg/kg	PFOA or its salts ≤0.025mg/kg Individual or total PFOA ≤1 mg/kg
28	Dicofol	115-32-2	0.001	Prohibitions

No.	Test Item	CAS No.	Result (%)
1	Tetrabromodiphenyl ether*	40088-47-9	N.D.
2	Pentabromodiphenyl ether*	32534-81-9	N.D.
3	Hexabromodiphenyl ether*	36483-60-0	N.D.
4	Heptabromodiphenyl ether*	117948-63-7 207122-16-5	N.D.
5	Bis(pentabromophenyl) ether *	1163-19-5	N.D.
6	Perfluorooctane sulfonic acid and its derivatives (PFOS)	1763-23-1	N.D.
7	DDT(I,I,I-trichloro-2,2-bis(4-chlorophenyl)ethane)	50-29-3	N.D.
8	Chlordane	57-74-9	N.D.
9	Hexachlorocyclohexanes, including lindan	58-89-9, 319-84-6 319-85-7, 608-73-1	N.D.
10	Dieldrin	60-57-1	N.D.
11	Endrin	72-20-8	N.D.
12	Heptachlor	76-44-8	N.D.
13	Endosulfan	115-29-7, 959-98-8 33213-65-9	N.D.
14	Hexachlorobenzene	118-74-1	N.D.

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15	Chlordecone	143-50-0	N.D.
16	Aldrin	309-00-2	N.D.
17	Pentachlorobenzene	608-93-5	N.D.
18	Polychlorinated Biphenyls(PCBs)	1336-36-3	N.D.
19	Mirex	2385-85-5	N.D.
20	Toxaphene	8001-35-2	N.D.
21	Hexabromobiphenyl	36355-01-08	N.D.
22	Hexabromocyclododecane (HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	N.D.
23	Hexachlorobutadiene	87-68-3	N.D.
24	Pentachlorophenol and its salts and esters	87-86-5 and others	N.D.
25	Polychlorinated naphthalenes (7)	70776-03-3 and others	N.D.
26	Alkanes C10-C13, chloro (shortchain chlorinated paraffins) (SCCPs)	85535-84-8	N.D.
27	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	335-67-1 and others	N.D.
28	Dicofol	115-32-2	N.D.

Specimen Description:

1. Aluminum frame

Note: MDL = Method Detection Limit

N.D.= Not Detected(<MDL)

1mg/kg=1ppm=0.0001%

- Remark:
- *Electrical and electronic equipment within the scope of Directive 2011/65/EU.
 - As specified by client, the test was conducted by mixing several samples together. The results shown on this report may be different from the content of any homogeneous material. "+" = Composite test has been performed as per client's request and the result(s) is (are) calculated using the minimum specimen weight.
 - The test report is only used for customer research, teaching, internal quality control, product development, etc., only for internal reference only

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Sample Figure:

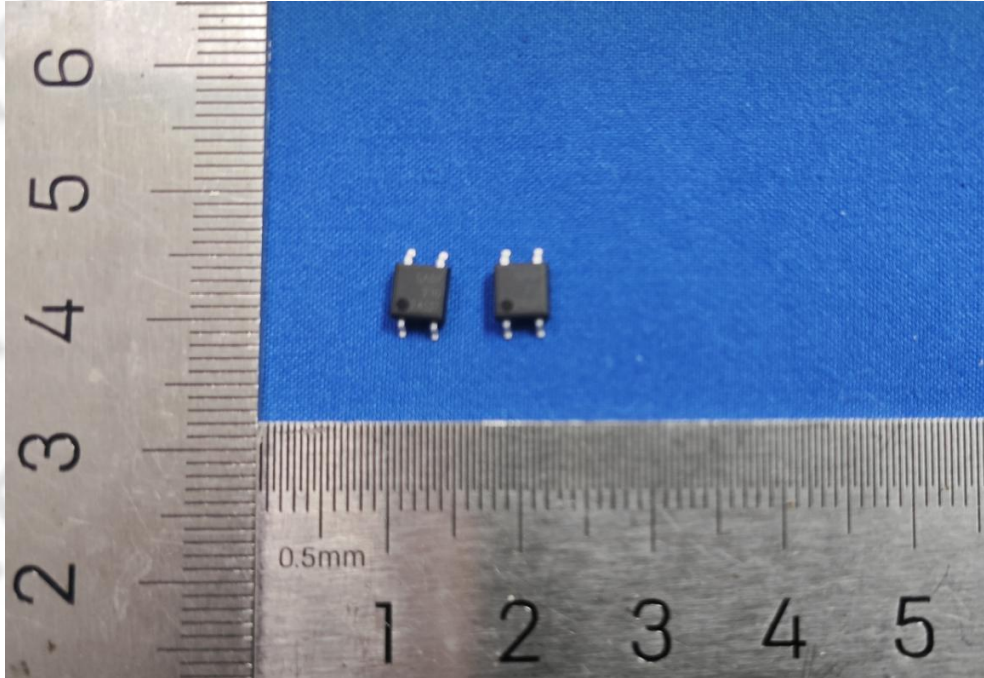


Figure 1

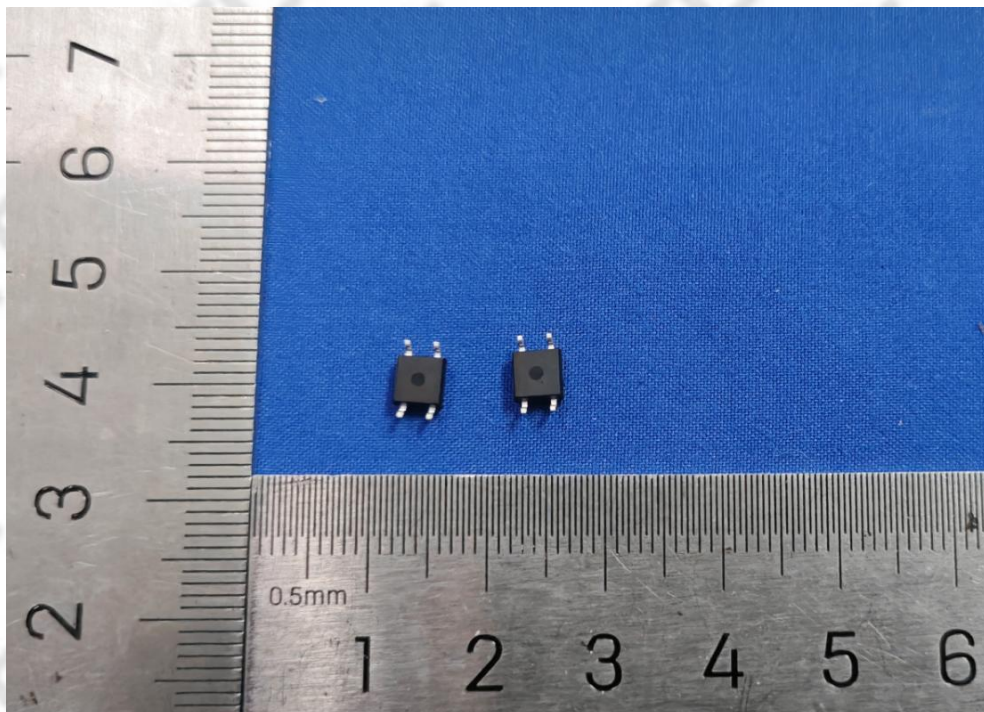


Figure 2

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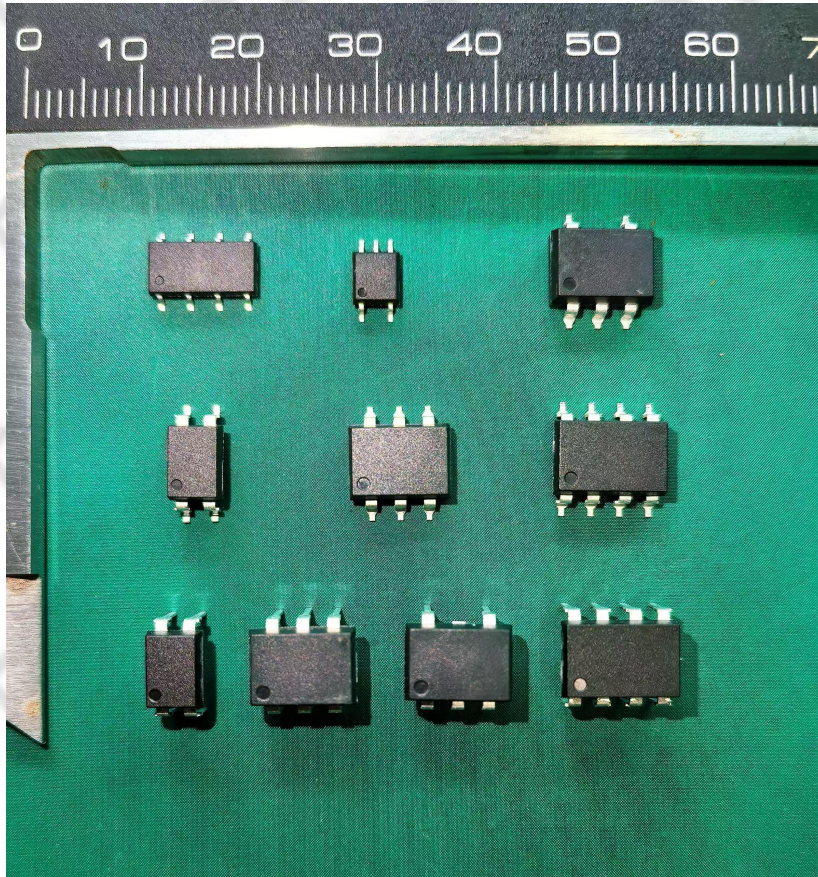


Figure 3

***** End of Report *****

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