



SPARKLE POWER INC.

FSP060-DHAN3

**SPI P/N.: AD060DHAN3-VCN
(12V @ 5)**

**Efficiency Level VI+ CoC V5 Tier 2
Altitude 5K**

Adapter Power Supply

Fremont Office

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05/17/2017

Efficiency Testing Criteria

	Regulation	Output Power	Average Efficiency in Active Mode	Maximum Power in No Load
The Product Meet	Department of Energy Level VI	49W<PO≤250W	≥88%	≤0.21W
	Code of Conduct V5 (Tier 2)*	49W<PO≤250W	≥89%	≤0.15W

Electrical Specification

Electrical Requirements

1. Input Characteristics:

ITEM	CONDITION	SPECIFICATION
1.1 Rated Input Voltage:		100Vac~240Vac
1.2 Input Voltage Range:		90Vac to 264Vac
1.3 Input Frequency Range:		47Hz to 63Hz
1.4 Input Current:	100Vac / Full Load 240Vac / Full Load	$\leq 1.8A$ $\leq 0.8A$
1.5 Input Current Harmonic:		IEC61000-3-2
1.6 Inrush Current:	100Vac,240Vac / Full load(Cold start)	Shall be less than the rating of Adapter critical component (including rectifiers, fuse surge And current limiting device)
1.7 Meet DOE(Level VI):	(1)115Vac / 0A load (2)115Vac / 25%,50%,75%,100% load (Average Active Mode Efficiency , Warm up 30 minutes later)	$\leq 0.21W$ $\geq 88.00\%$
1.8 Meet CoC V5 (Tier 2):	(1)230Vac / 0A load (2)230Vac / 25%,50%,75%,100% load (Average Active Mode Efficiency , Warm up 30 minutes later)	$\leq 0.15W$ $\geq 89.00\%$
1.9 Meet full load Efficiency	115Vac / Full Load 230Vac / Full Load	$\geq 85.00\%$
1.9.1 Voltage & frequency test condition	90Vac / 63HZ	
	100Vac / 60HZ	
	115Vac/ 60HZ	
	220Vac/ 50HZ	
	230Vac/ 50HZ	
	264Vac/ 47HZ	
1.1.0 Meet safety regulation		IEC/EN 60950-1 IEC/EN 62368-1

Electrical Specification

Electrical Requirements

2. Output Characteristics:

※Measured at the end of DC cable.

ITEM	CONDITION	SPECIFICATION
2.1 Output Rated Voltage:		12V
2.2 Output Current:	at constant voltage mode	0A to 5.0A
2.3 Output Voltage Setting:	at the output end of DC cable	12V \pm 5%
2.4 Output Voltage Ripple and Noise: (0.1uF Ceramic Cap. and 35V 47uF Aluminum Cap. Paralleled between the end of output cable)	115Vac, 230Vac / 0A~5.0A load	\leq 120mVp-p
2.5 Turn-On Delay Time:	At 115Vac / 5.0A load, output voltage shall remain regulation	\leq 3Sec
2.6 Hold Up Time:	At 115Vac or 230Vac / 5.0A load, output voltage shall remain regulation	\geq 8ms
2.7 Rise Time:	At 115Vac / 5.0A load, DC output rise time from 10%~90% of VO	\leq 50ms
2.8 Dynamic Load Change:	(1) Output load step is : (a) 10% ~50 % (b) 50 %~90 % (2) S/R=0.5A/us (3) Frequency is 100Hz and 1KHz	12V \pm 10%
2.9 Overshoot:	115Vac,230Vac / 0A and 5.0A	12V \pm 10%
2.10 Connector Pin Designations:		Refer to Outline

Electrical Specification

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3. Protection Characteristics:

ITEM	CONDITION	SPECIFICATION
3.1 Short Circuit Protection:	When an internal fault occurs, or an external fault is applied to the power supply, such that an overload or short circuit is applied to the output, the power supply shall shut down and enter auto-recovery mode.	Auto-recovery and no damage
3.2 Over Voltage Protection:	The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused by internal fault, the output trip voltage shall not exceed 25 volts. Only internal test.	Shutdown and no damage Output Voltage limit : 14Vdc~25Vdc
3.3 Over Current Protection:	When an internal fault occurs, or an external fault is applied to the power supply, such that an overload is applied to the output, the power supply shall shut down and enter auto-recovery mode. at 115Vac & 230Vac & C. C. Mode	Auto-recovery and no damage Output current limit : 8A(Max)
3.4 Under-voltage Protection: (Brown Out)	The power supply will enter into shut down while the AC input voltage fall to under normal voltage. That will be return to normal state after the fault has been removed.	Shutdown and no damage

Electrical Specification

Electrical Requirements

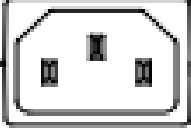
4. Environmental Characteristics:

ITEM	CONDITION	SPECIFICATION
4.1 Electric Fast Transients: Refer to IEC61000-4-4	Impulse: $\pm 1\text{kV}$ applied to L,N	Normal operation shall be continued
4.2 Lightning Surge: Refer to IEC61000-4-5	$\pm 1\text{kV}$ applied differential mode	Normal operation shall be continued
	$\pm 2\text{kV}$ applied common mode	Normal operation shall be continued
4.3 Electron Static Discharge: (Refer to IEC61000-4-2 Energy Storage Capacitor 150pF; Discharge Resistor 330 Ω)	Contact Discharge: $\pm 4\text{KV}$ Air Discharge: $\pm 8\text{KV}$	Normal operation shall be continued
4.4 Cooling:	Natural air cooling	
4.5 EMI: Adapter comply with the following national standards: EMI Conducted Emission EMI Radiated Emission	1.Full Load 2. The power supply with internal filter can meet.	FCC PART 15J CLASS B CISPR32 : 2012 EN55032 : 2012 VCCI LEVEL II
4.6 Safety conforming: 4.6.1 Energy-related Products(ErP) Department of Energy(DoE)		Regulated by customer Comply with ErP standard Comply with DoE standard
4.7 Leakage Current:	264Vac / 50Hz	$\leq 0.25\text{mA}$
4.8 Dielectric Strength: (Hi-Pot)	1. primary to secondary applied AC 2.5KV 2. primary to pe applied AC 2.5KV test time 3s / cut off current shall be less than 10mA	
4.9 Insulation Resistance	Between AC input and secondary applied DC 500V/ test time 1 second	$\geq 100\text{ M}\Omega$
4.10 Temperature:	Operating	0 to 40°C(Safety) 40 to 70°C Linearly de-rate to 50% load at 70°C , need to check safety with system
	Storage	-20 to +80°C
4.11 Humidity:	Operating	20% ~ 80%
	Storage	10% ~ 90%

Electrical Specification

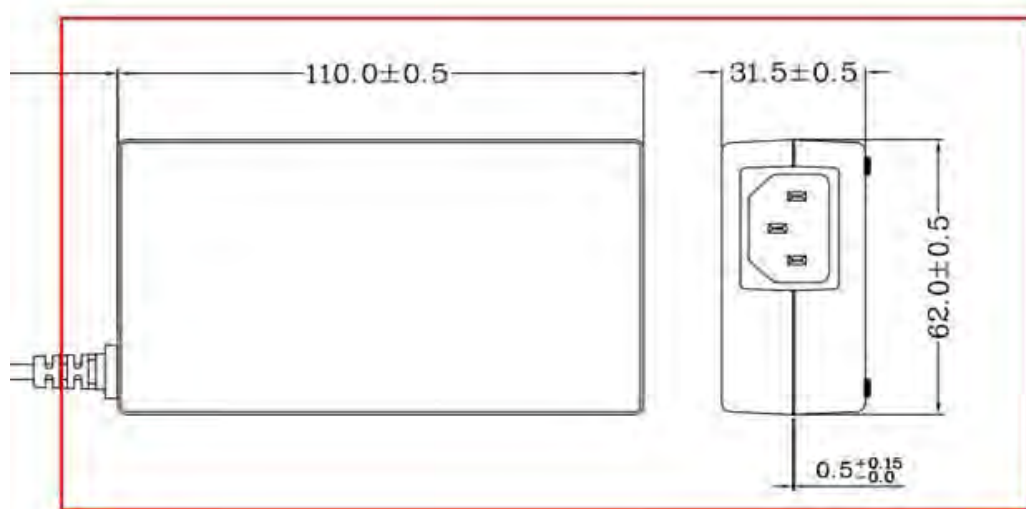
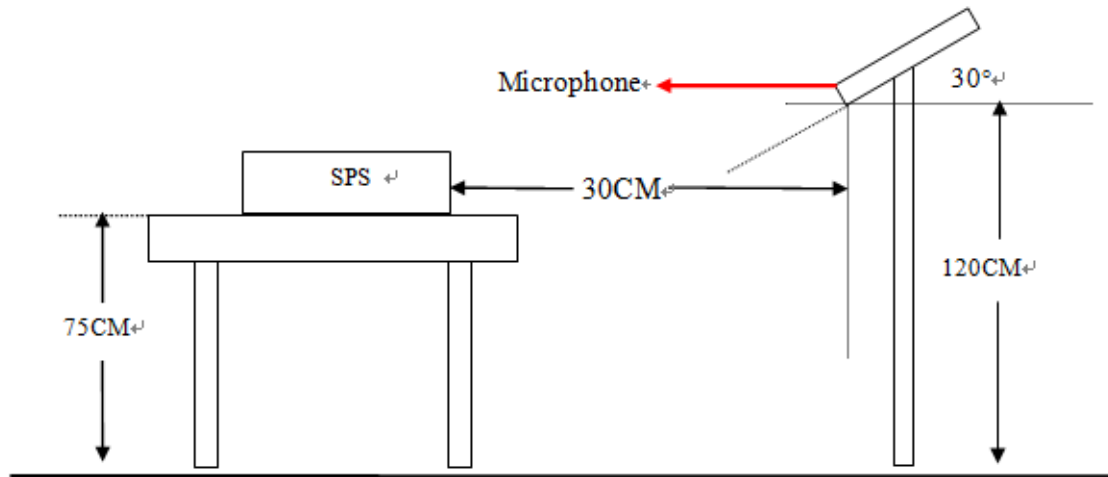
Electrical Requirements

5. Mechanical Characteristics:

ITEM	CONDITION	SPECIFICATION
5.1 Dimension(Length x Width x Height)		110 X 62.0 X 31.5 mm
5.2 Adapter weight		150g (typical)
5.3 Input AC socket Type		IEC 320-C14 Type
5.4 Vibration Test:	<ul style="list-style-type: none"> (1) Non-operating, 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, And maintain 0.02g²/Hz from 20Hz ~ 500Hz (2) PSD=3.13grms, 15 minutes/axis (3) Vibration duration : 15minutes (4) Vibration waveform : Random (5) Force Direction X,Y,Z 	Normal operation shall be continued.
5.5 MTBF:	<ul style="list-style-type: none"> (1) Full Load (2) 230Vac (3) 25°C 	300,000Hrs Min. Telcordia SR-332 Issue2
5.6 SEA Level:		5000 meters
5.7 RoHS:		Meet RoHS required
5.8 Acoustic Noise:	<ul style="list-style-type: none"> (1) Position the microphone 30 Centimeters above the x-y center Of the AC adapter (2) Input voltage: 110Vac/60Hz 220Vac/50Hz (3) Test Point: No load 20% load 40% load 60% load 80% load Full load 	The EUT <30dB

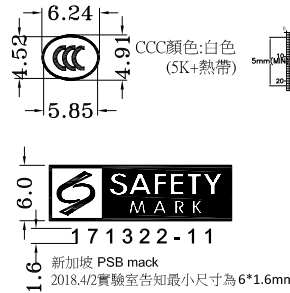
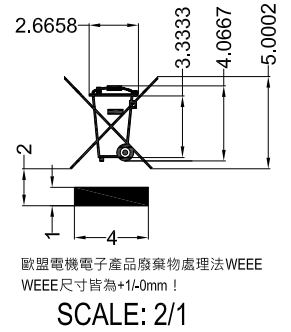
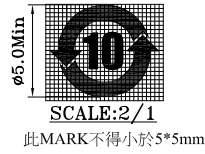
Electrical Specification

Note : Acoustic Noise



注意事項:

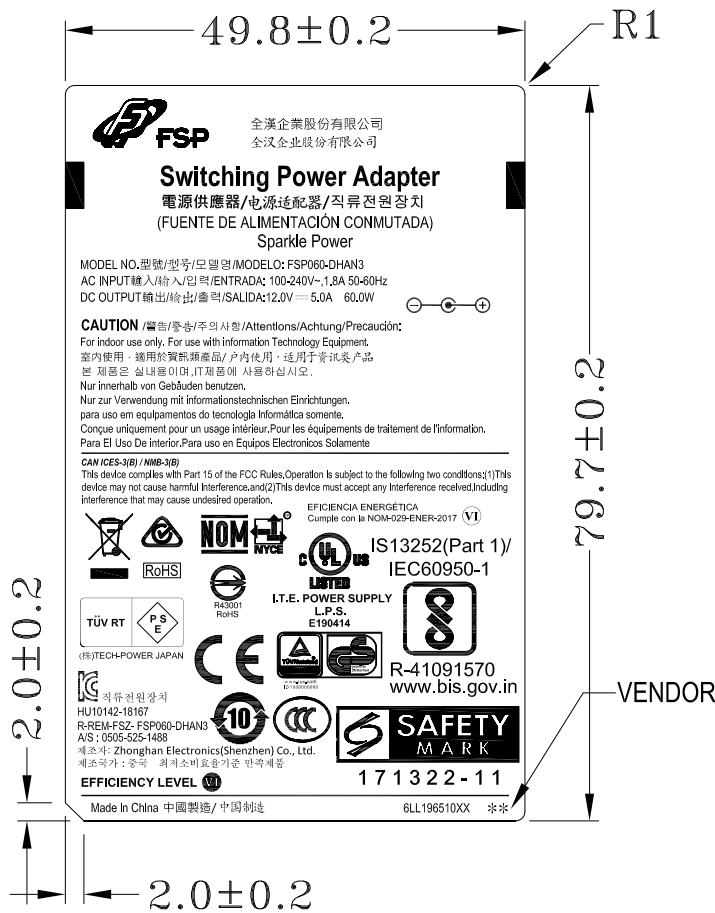
1. 材質: 75#PET+MYLAR COATING (MATTE)
背膠: "H" TYPE ADHESIVE
2. 黏貼於PC材質, 表面拋光(光面)
3. 底材+COATING厚度為0.15mm±0.03.
4. 背膠必須耐溫100° C不會產生翹起, 起泡
5. 印刷必須清晰, 不得有斷線、模糊不清等不良現象
6. 黑底白字.
7. LOGO請依適當比例印刷於LOGO區
8. 英文/數字字型: Arial Narrow
中文繁體字型: 微軟正黑體
中文简体字型: 金梅簡中楷
韓文字型: Gulim
9. 字體、位置、安規符號請依圖面印刷, 不得任意修改
10. LABEL MUST BE UL RECOGNIZED: PGDQ2 OR PGJ12
11. LABEL MUST BE CSA CERTIFIED.
12. THE PLASTIC MATERIAL OF APPLICATION SURFACE FOR THIS LABEL IS PC
13. 未注公差為: +0/-0.3mm
14. 必須符合"SPI環境管制物質技術標準 (SGP-0401)



IS13252(Part 1)/ IEC60950-1



2018.9/12安規mail通知
印度 BIS LOGO中的IS號碼、註冊號碼及所有字碼
均須大於Ariel 6號字體(高度0.15 cm約1.5mm)



UNIT:mm

P/N.:6LL196510暫用

MODEL NO. : G.P,FSP060-DHAN3(S030005)		TITLE: LABEL		SHEET: 1 OF 2	REV:01
R&D (5)	PE	DRAWN	DATE		
Benson	Victoryu	ANGELH	MAY.22.2020		
		AD060DHAN3-VCN	陳慈萱 Anita		



FSP Green Product Declaration

We hereby guarantee that our power supply are in compliance with RoHS directive "(2011/65/EU & (EU) 2015/863), WEEE Directive (2012/19/EU)" and othe national and international statutory requirements.

We hereby conform and report the material and amount of "Environment of hazardous substance" in the concern product and part as listed below :

Item	Substance/Material	Contain ppm
1	Cadmium(Cd)	<100ppm
2	Lead(Pb)	<1000ppm
		Use the RoHS Exemption 6a-I, 6b-II, 6c, 7a,7(c)-I
3	Mercury(Hg)	<1000ppm
4	Hexavalent Chromium(Cr6+)	<1000ppm
5	Polybrominated biphenyls (PBBs)	<1000ppm
6	Polybrominated diphenylethers (PBDEs)	<1000ppm
7	Bis (2-ethylhexyl) phthalate (DEHP)	<1000ppm
8	Butyl benzyl phthalate (BBP)	<1000ppm
9	Dubutyl phthalate (DBP)	<1000ppm
10	Diisobutyl phthalate(DIBP)	<1000ppm

Remark :

The RoHS Exemption*: such as 7a.Lead (Pb) in high melting temperature type solders; 7c-1. Leaded glass used in electronic components ; Lead (Pb) in electronic ceramic parts and 6a-I.Lead (Pb) in Steel Alloys (0.35% or 3500 PPM), 6b-II. Aluminum Alloys (0.4% or 4000 PPM) or 6c. Copper Alloys (incl. bronzes, brasses, 4.0% or 40000 PPM).

PS: For 2021 RoHS regulation requested, FSP policy is comply the latest RoHS regulations

FSP Technology Inc.



Authorized Signature

Date : 2020/03/27

Version : 20200327_V1



REACH STATEMENT

To: ALL CUSTOMER

We hereby declare that our products (the "Products") fully comply with European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (the "REACH"), with the tolerance of no greater than 0.1% (1000ppm). As the supplier, we are willing to provide all necessary documentation or information, to prove our compliance with the REACH regulations.

本公司在此聲明·我們的產品(以下簡稱為“本產品”)完全符合Registration, European Union Regulation (EC) 1907/2006, Evaluation, Authorization and Restriction of Chemicals (以下簡稱為“REACH”)·且質量的公差大於0.1% (1000ppm)·本公司作為供應商·我們願意提供所有必要的文件或資訊·以證明我們符合上述的REACH法規·

REACH 205 SVHC SUBSTANCE IDENTIFICATION

	Chinese Name	Substance name	CAS number	EC number
1	蒽	Anthracene	120-12-7	204-371-1
2	4,4'-二氨基二苯基甲烷	4,4' - Diaminodiphenylmethane	101-77-9	202-974-4
3	鄰苯二甲酸二丁酯	Dibutyl phthalate	84-74-2	201-557-4
4	六溴環十二烷	Hexabromocyclododecane(HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	247-148-4 221-695-9
5	氯化鈷	Cobalt dichloride	7646-79-9	231-589-4
6	五氧化二砷	Diarsenic pentaoxide	1303-28-2	215-116-9
7	三氧化二砷	Diarsenic trioxide	1327-53-3	215-481-4
8	重鉻酸鈉	Sodium dichromate,	7789-12-0 10588-01-9	234-190-3
9	2,4,6-三硝基-3,3-二甲基-5-叔丁基苯(二甲苯麝香)	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
10	鄰苯二甲酸(2-乙基己基酯)	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0
11	短鏈型C10-13氯化石蠟	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
12	氧化雙三丁基錫	Bis(tributyltin)oxide	56-35-9	200-268-0
13	酸式磷酸鉛	Lead hydrogen arsenate	7784-40-9	232-064-2
14	三乙磷酸酯	Triethyl arsenate	15606-95-8	427-700-2
15	鄰苯二甲酸丁苄酯	Benzyl butyl phthalate	85-68-7	201-622-7
16	蒽油	Anthracene oil	90640-80-5	292-602-7
17	蒽油·蒽糊·輕油	Anthracene oil,anthracene paste,distn,lights oil	91995-17-4	295-278-5
18	蒽油·蒽糊·蒽鹵分	Anthracene oil,anthracene paste,anthracene fraction	91995-15-2	295-275-9
19	蒽油·含蒽量少	Anthracene oil,anthracene-low	90640-82-7	292-604-8
20	蒽油·蒽糊	Anthracene oil,anthracene paste	90640-81-6	292-603-2
21	鄰苯二甲酸二異丁酯	Diisobutyl phthalate(DIBP)	84-69-5	201-553-2
22	2,4-二硝基甲苯	2,4-Dinitrotoluene	121-14-2	204-450-0



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	Chinese Name	Substance name	CAS number	EC number
23	煤瀝青·高溫	Coal tar pitch,high tem-perature	65996-93-2	266-028-2
24	三(2-氯乙基)磷酸酯	Tris(2-chloroethyl)phosphate(TCEP)	115-96-8	204-118-5
25	丙烯醯胺	Acrylamide	79-06-1	201-173-7
26	鉻酸鉛	Lead chromate	7758-97-6	231-846-0
27	紅色鉻鉻酸鉛硫酸鹽	Lead chromate molybdate sulfate red(C.I. Pigment Red 104)	12656-85-8	235-759-9
28	黃色硫化鉻酸鉛	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
29	三氯乙烯	Trichloroethylene	79-01-6	201-167-4
30	硼酸	Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4
31	無水四硼酸鈉	Disodium tetraborate,Anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4
32	七水四硼酸鈉	Tetraboron disodium Heptaoxide,hydrate	12267-73-1	235-541-3
33	鉻酸鈉	Sodium chromate	7775-11-3	231-889-5
34	鉻酸鉀	Potassium chromate	7789-00-6	232-140-5
35	重鉻酸銨	Ammonium dichromate	7789-9-5	232-143-1
36	重鉻酸鉀	Potassium dichromate	7778-50-9	231-906-6
37	硫酸鈷	Cobalt sulphate	10124-43-3	233-334-2
38	硝酸鈷	Cobalt dinitrate	10141-05-6	233-402-1
39	碳酸鈷	Cobalt carbonate	513-79-1	208-169-4
40	乙酸鈷	Cobalt diacetate	71-48-7	200-755-8
41	2-甲氧基乙醇	2-Methoxyethanol	109-86-4	203-713-7
42	2-乙氧基乙醇	2-Ethoxyethanol	110-80-5	203-804-1
43	三氧化鉻	Chromium trioxide	1333-82-0	215-607-8
44	從三氧化鉻產生的酸類以及它們的齊物： 鉻酸 重鉻酸 鉻酸和重鉻酸的齊物	Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5



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45	乙二醇乙醚醋酸酯	2-ethoxyethylacetate	111-15-9	203-839-2
46	鉻酸鈣	strontium chromate	7789-06-2	232-142-6
47	1,2-苯二酸-二(C7-11支鏈直鏈)烷基酯 (DHNUP)	1,2-Benzenedicarboxylic acid di-c7-11-branched and linear alkylesters (DHNUP)	68515-42-4	271-084-6
48	聯氨	Hydrazine	302-01-2 7803-57-8	206-114-9
49	N-甲基吡咯烷酮	1-methyl-2-pyrrolidone	872-50-4	212-828-1
50	1,2,3-三氯丙烷	1,2,3-trichloropropane	96-18-4	202-486-1
51	鄰苯二甲酸二C6-8支鏈 烷基酯 (富C7) (DIHP)	1,2-Benzenedicarboxylic acid di-C6-8-branched alkyl esters C7-rich (DIHP)	71888-89-6	276-158-1
52	鉻酸鉻	Dichromium tris(chromate)	24613-89-6	246-356-2
53	氫氧化鉻酸鋅鉀	Potassium hydroxyoctaoxidizncatedi-chromate	11103-86-9	234-329-8
54	鋅黃	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
55	矽鋁酸耐火陶瓷纖維(RCF)	Aluminosilicate Refractory Ceramic Fibres (RCF)	-	-
56	氧化鋯矽酸鋁耐火陶瓷纖維(ZR-RCF)	Zirconia Aluminosilicate Refractory Ceramic Fibres(Zr-RCF)	-	-
57	甲醛與苯胺的低聚反應產物	Formaldehyde,oligomeric reaction products with aniline (tehcnical MDA)	25214-70-4	500-036-1
58	鄰苯二甲酸二甲氧乙酯	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
59	鄰甲氧苯胺	2-Methoxyaniline;o-Anisidine	90-04-0	201-963-1
60	4-(1,1,3,3-四甲基丁基)苯酚(4-(叔辛基)苯酚)	4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol)	140-66-9	205-426-2
61	1,2-二氯乙烷	1,2-Dichloroethane	107-06-2	203-458-1
62	雙(2-甲氧基乙基)醚	Bis(2-methoxyethyl) ether	111-96-6	203-924-4
63	砷酸	Arsenic acid	7778-39-4	231-901-9
64	砷酸鈣	Calcium arsenate	7778-44-1	231-904-5



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	Chinese Name	Substance name	CAS number	EC number
65	砷酸鉛	Trilead diarsenate	3687-31-8	222-979-5
66	N,N-二甲基乙醯胺	N,N-dimethylacetamide(DMAC)	127-19-5	204-826-4
67	2,2'-二氯-4,4'-二氨基二苯基甲烷	2,2'-dichloro-4,4'-methylenedianiline(MOCA)	101-14-4	202-918-9
68	酚酞	Phenolphthalein	77-09-8	201-004-7
69	迭氮化鋁	Lead azide Lead diazide	13424-46-9	236-542-1
70	三硝基苯間二酚鉛	Lead styphnate	15245-44-0	239-290-0
71	三硝基苯酚鉛	Lead dipicrate	6477-64-1	229-335-2
72	1,2-二(2-甲氧基乙氧基)乙烷	1,2-bis(2-methoxyethoxy)ethane(TEGDME;tri glyme)	112-49-2	203-977-3
73	1,2-二(甲氧基)乙烷	1,2-dimethoxyethane;ethylene glycol dimethylether(EGDME)	110-71-4	203-794-9
74	三氧化二硼	Diboron trioxide	1303-86-2	215-125-8
75	甲酰胺	Formamide	75-12-7	200-842-0
76	甲磺酸鉛(II)	Lead(II)bis(methanesulfonate)	17570-76-2	401-750-5
77	異氰尿酸三縮水甘油酯	TGLC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3
78	異氰尿酸β-三縮水甘油酯	β-TGLC(1,3,5-tris[(2S and2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5-trione)	59653-74-6	423-400-0
79	4,4'-二(N,N-二氨基二苯甲酮)(米氏酮)	4,4'-bis(dimethylamino)benzophenone(Michler's ketone)	90-94-8	202-027-5



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80	4,4-(對二甲氨基二苯甲烷)(米氏碱)	N,N,N',N'-tetramethyl-4,4'-methylenedianiline(Michler's base)	101-61-1	202-959-2
81	C.I.碱性紫3	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I.Basic Violet 3)	548-62-9	208-953-6
82	C.I.碱性藍26	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I.Basic Blue 26)	2580-56-5	219-943-6
83	C.I.溶劑藍4	a,a-Bis[4-(dimethylamino)phenyl]-4(phenlamino)naphthalene-1-methanol(C.I.Solvent Blue 4)	6786-83-0	229-851-8
84	4,4-事[(事甲氨基)苯基]-4-甲氨基苯甲醇	4,4'-bis(dimethylamino)-4'-(methylamino)trityl alcohol	561-41-1	209-218-2
85	十溴联苯醚	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9
86	全氟十三酸	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
87	全氟十二烷酸	Tricosafuorododecanoic acid	307-55-1	206-203-2
88	全氟十一烷酸	Henicosafuoroundecanoic acid	2058-94-8	218-165-4
89	全氟代十四酸	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4
90	辛基酚聚醚-9	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-



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REACH 205 SVHC SUBSTANCE IDENTIFICATION

	Chinese Name	Substance name	CAS number	EC number
91	壬基酚	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-
92	偶氮二甲酰胺	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
93	六氫邻苯二甲酸酐	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7 · 13149-00-3 · 14166-21-3	201-604-9 · 236-086-3 · 238-009-9
94	甲基六氫苯酐、4-甲基六氫苯酐、甲基六氫化邻苯二甲酸酐、3-甲基六氫苯二甲酸酐	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1 243-072-0 256-356-4 260-566-1
95	甲氧基乙酸	Methoxy acetic acid	625-45-6	210-894-6
96	支链和直链1,2-苯二羧二戊酯	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
97	邻苯二甲酸二异戊酯	Diisopentylphthalate (DIPP)	605-50-5	210-088-4
98	邻苯二甲酸正戊基异戊基酯	N-pentyl-isopentylphthalate	776297-69-9	
99	乙二醇二乙醚	1,2-Diethoxyethane	629-14-1	211-076-1
100	N,N-二甲基甲酰胺	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5
101	二丁基锡	Dibutyltin dichloride (DBT)	683-18-1	211-670-0
102	碱式乙酸铅	Acetic acid, lead salt, basic	51404-69-4	257-175-3
103	碱式碳酸铅	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6	215-290-6
104	碱式硫酸铅	Lead oxide sulfate (basic lead sulfate)	12036-76-9	234-853-7
105	二盐基邻苯二甲酸铅	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	273-688-5



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	Chinese Name	Substance name	CAS number	EC number
106	双(十八酸基)二氧化三铅	Dioxobis(stearato)trilead	12578-12-0	235-702-8
107	C16-18-脂肪酸铅盐	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
108	氟硼酸铅	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
109	氨基氰铅盐	Lead cyanamidate	20837-86-9	244-073-9
110	硝酸铅	Lead dinitrate	10099-74-8	233-245-9
111	氧化铅	Lead oxide (lead monoxide)	1317-36-8	215-267-0
112	四氧化三铅	Lead tetroxide (orange lead)	1314-41-6	215-235-6
113	钛酸铅	Lead titanium trioxide	12060-00-3	235-038-9
114	钛酸铅锆	Lead Titanium Zirconium Oxide	12626-81-2	235-727-4
115	氧化铅与硫酸铅的复合物	Pentalead tetraoxide sulphate	12065-90-6	235-067-7
116	颜料黄	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
117	铅掺杂的硅钡酸盐	Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5
118	硅酸铅	Silicic acid, lead salt	11120-22-2	234-363-3
119	亚硫酸铅(II)	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
120	四乙基铅	Tetraethyllead	78-00-2	201-075-4
121	三碱式硫酸铅	Tetralead trioxide sulphate	12202-17-4	235-380-9
122	磷酸氧化铅	Trilead dioxide phosphonate	12141-20-7	235-252-2
123	呋喃	Furan	110-00-9	203-727-3
124	环氧丙烷	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2
125	硫酸二乙酯	Diethyl sulphate	64-67-5	200-589-6
126	硫酸二甲酯	Dimethyl sulphate	77-78-1	201-058-1
127	3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7



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	Chinese Name	Substance name	CAS number	EC number
128	地乐酚	Dinoseb	88-85-7	201-861-7
129	4,4'-二氨基-3,3'-二甲基二苯甲烷	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
130	4,4'-二氨基二苯醚	4,4'-oxydianiline and its salts	101-80-4	202-977-0
131	对氨基偶氮苯	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-03	200-453-6
132	2,4-二氨基甲苯	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1
133	2-甲氧基-5-甲基苯胺	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
134	4-氨基联苯	Biphenyl-4-ylamine	92-67-1	202-177-1
135	邻氨基偶氮甲苯	o-aminoazotoluene	97-56-3	202-591-2
136	邻甲基苯胺	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0
137	N-甲基乙酰胺	N-methylacetamide	79-16-3	201-182-6
138	溴代正丙烷	1-bromopropane; n-propyl bromide	106-94-5	203-455-0
139	镉	Cadmium	7440-43-9	231-152-8
140	氧化镉	Cadmium oxide	1306-19-0	215-146-2
141	邻苯二甲酸二正戊酯(DPP)	Dipentyl phthalate (DPP)	131-18-0	205-017-9
142	4-壬基酚聚氧乙烯醚	4-Nonylphenol, branched and linear, ethoxylated[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering	-	-
143	全氟辛酸铵(APFO)	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
144	全氟辛酸 (PFOA)	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
145	硫化镉	Cadmium sulfide	1306-23-6	215-147-8
146	鄰苯二甲酸二己酯	Di-n-hexyl phthalate	84-75-3	201-559-5
147	CI直接紅28	Congo Red	573-58-0	209-358-4



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148	CI直接黑38	disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7 disulphonate	1937-37-7	217-710-3
149	亞乙基硫脲	2-Imidazolidinethione	96-45-7	202-506-9
150	乙酸鉛	lead acetate	301-04-2	206-104-4
151	磷酸三(二甲苯)酯	trixyl phosphite, mixture of isomers	25155-23-1	246-677-8
152	氯化鎘	Cadmium chloride	10108-64-2	233-296-7
153	邻苯二甲酸二己酯 (DIHP)	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	68515-50-4	271-093-5
154	过硼酸钠	Sodium peroxometaborate	7632-04-4	231-556-4
155	过硼酸钠 ; 过硼酸钠盐	Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0
156	氟化鎘	Cadmium fluoride	7790-79-6	232-222-0
157	硫酸鎘	Cadmium sulphate	10124-36-4; 31119-53-6	233-331-6
158	UV-320	2-benzotriazol-2-yl-4,6-di-tert-butylphenol,6-di-tert-butylphenol(UV-320)	3846-71-7	223-346-6
159	UV-328	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8
160	DOTE	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4
161	DOTE 和MOTE反应产物	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass ofDOTE and MOTE)	-	-



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162	邻苯事甲酸事(C6-C10)烷基酯;(癸基·己基·辛基)酯不1·2-邻苯事甲酸的复合物且邻苯事甲酸事己酯(EC号201-559-5)含量≥0.3%	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1
163	2-(2,4-事甲基-3-环己基)-5-甲基-5-(1-甲基丙基)-1,3-事氧恶烷[1] 2-(4,6-事甲基-3-环己基)-5-甲基-5-(1-甲基丙基)-1,3-事氧恶烷[2] 及这两个物质的任意组合(卡拉花醛及其同分异极体·还包括卡拉花醛和其同分异极体的任意组合)	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-
164	1,3-丙磺酸内酯	1,3-propanesultone	1120-71-4	214-317-9
165	2,4-二-叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(紫外線吸收劑UV-327)	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)	3864-99-1	223-383-8
166	2-(3-仲-丁基-5-叔丁基-2-羟苯基)苯并三唑(紫外線吸收劑UV-350)	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol(UV-327)	36437-37-3	253-037-1
167	硝基苯	Nitrobenzene	98-95-3	202-716-0
168	全氟壬酸	Perfluorononan-1-oic acid(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorooctanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	206-801-3
169	苯并芘	Benzo[def]chrysens	50-32-8	200-028-5
170	4,4'-异亚丙基双酚A(BPA)	4,4-isopropyl bisphenol A(BPA)	80-05-7	201-245-8
171	全氟癸酸(PFDA)及其钠盐和铵盐	Perfluorodecanoic acid(PFDA)and its sodium salt and ammonium salt	335-76-2 3830-45-3 3108-42-7	206-400-3 221-470-5



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172	对-(1,1-事甲基丙基)酚 (对叔戊基苯酚) (PTAP)	on-(1,1.Methyl propyl)phenol(TERT amylphenol)(PTAP)	201-280-9	80-46-6
173	支链不直链的4-庚基苯酚(4-HPbl)	4-heptyl phenol support straight chain(4HPbl)	-	-
174	全氟己基磺酸及其鹽類 (PFHxS)	Perfluorohexane-1-sulphonic acid and its salts	-	-
175	德克隆[包括所有反式和顺式异构体及其组合]	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9; 135821-74-8; 135821-03-3	-
176	苯并[a]蒽	Benz[a]anthracene	56-55-3	200-280-6
177	硝酸鎘	Cadmium nitrate	10325-94-7	233-710-6
178	碳酸鎘	Cadmium carbonate	513-78-0	208-168-9
179	氢氧化鎘	Cadmium hydroxide	21041-95-2	244-168-5
180	屈	Chrysene	218-01-9	205-923-4
181	1,3,4- 噻二唑烷-2,5-二硫酮，甲醛和4-庚基苯酚的支链和直链 (RP-HP) 的反应产物[4-庚基苯酚，支链和直链含量≥0.1%w/w]	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥ 0.1% w/w 4-heptylphenol, branched and linear]	-	-
182	八甲基环四硅氧烷 (D4)	Octamethylcyclotrisiloxane (D4)	556-67-2	209-136-7
183	十甲基环戊硅氧烷 (D5)	Decamethylcyclopentane (D5)	541-02-6	208-764-9
184	十二甲基环己硅氧烷 (D6)	Dodecyl cyclohexasiloxane (D6)	540-97-6	208-762-8
185	铅	lead	7439-92-1	231-100-4



REACH STATEMENT

To: ALL CUSTOMER

We hereby declare that our products (the "Products") fully comply with European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (the "REACH"), with the tolerance of no greater than 0.1% (1000ppm). As the supplier, we are willing to provide all necessary documentation or information, to prove our compliance with the REACH regulations.

本公司在此聲明，我們的產品（以下簡稱為“本產品”）完全符合Registration, European Union Regulation (EC) 1907/2006, Evaluation, Authorization and Restriction of Chemicals（以下簡稱為“REACH”），且質量的公差大於0.1%（1000ppm）。本公司作為供應商，我們願意提供所有必要的文件或資訊，以證明我們符合上述的REACH法規。

REACH 205 SVHC SUBSTANCE IDENTIFICATION

	Chinese Name	Substance name	CAS number	EC number
186	四水八硼酸二鈉	Disodium tetraborate	12008-41-2	234-541-0
187	苯并(G,H,I)芘	Benzo (G, H, I)	191-24-2	205-883-8
188	氫化三聯苯	Triphenyl hydride	61788-32-7	262-967-7
189	乙(撐)二胺(EDA)	Ethylenediamine (EDA)	107-15-3	203-468-6
190	偏苯三酸酐 (TMA)	Polyphenyltrianhydride (TMA)	552-30-7	209-008-0
191	鄰苯二甲酸二環己酯 (DCHP)	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9
192	1,7,7-三甲基-3-(苯基亞甲基)雙環[2.2.1]庚烷-2-酮	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9
193	苯并(k)芘	Benzo (k) fluoranthene	207-08-9	205-916-6
194	芘	fluoranthene	206-44-0	205-912-4
195	菲	Phenanthrene	85-01-8	201-581-5
196	芘	Pyrene	129-00-0	204-927-3
197	2,2-雙(4-羥基苯基)-4-甲基戊烷	2,2-bis(4-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1
198	2-甲氧基乙酸乙酯	2-methoxyethyl acetate	110-49-6	203-772-9
199	三(壬基苯基, 支鏈和直鏈)亞磷酸酯 (TNPP), 含有≥0.1% w/w的4-壬基酚, 支鏈和直鏈(4-NP)	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-
200	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其鹽和酰鹵化物(包括它們各自的異構體及其組合)	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-



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REACH 205 SVHC SUBSTANCE IDENTIFICATION

	Chinese Name	Substance name	CAS number	EC number
201	4-叔丁基苯酚 (PTBP)	4-tert-butylphenol	98-54-4	202-679-0
202	邻苯二甲酸二异辛酯	Diisohexyl phthalate	71850-09-4	276-090-2
203	2-苄基-2-二甲氨基-4'-吗啉丁基甲酚	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3
204	2-甲基-1-(4-甲基硫苯基)-2-吗啉丙烷-1-酮	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
205	全氟代丁酸及其盐类	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-

我司产品在生产制程中不添加化学物质氧化铅，但部分DIODE中含有1000PPM-613500PPM左右的氧化铅，適用RoHS排除条款第七条，电子电气器件的玻璃或陶瓷（电容中介电陶瓷除外）中的铅，或玻璃或陶瓷复合材料中的铅（例如：压电陶瓷器件）；部分DIODE中含有30000PPM左右的Diboron trioxide，部分DIODE中還含有925000PPM的铅，適用RoHS排除条款第七条，高熔點錒錫中的鉛(例如鉛含量≥85%合金中的鉛)；部分螺丝及金属外壳中含有3000PPM的铅，適用RoHS排除条款第六条，加工用途之鋼材及鍍鋅鋼的合金元素中，鉛含量不超過0.35%；部分銅合金材料中含有40000PPM的鉛，適用RoHS排除条款第六条，銅合金中的鉛不超過4%，但以整機重量計是能符合 小于 1000PPM要求的。

Our products do not add chemical lead oxide in the production process, but some DIODE contains about 1000PPM to 613500 PPM of lead oxide. Article 7 of RoHS exclusion clause applies to lead in glass or ceramics of electronic and electrical devices (except dielectric ceramics in capacitors), or lead in glass or ceramic composite materials (e.g. piezoelectric ceramic devices); Some DIODE contains about 30000PPM of Diboron trioxide, and some DIODE also contains 925000PPM of lead. Article 7 of RoHS exclusion clause applies. Lead in high melting point solder (for example, lead in alloy with lead content ≥ 85%); some screws and metal shells contain 3000PPM of lead. Article 6 of RoHS exclusion clause applies. Lead content in alloy elements of steel and galvanized steel for processing purposes shall not exceed 0.35%; Some copper alloy materials contain 40000PPM lead, which is applicable to Article 6 of RoHS exclusion clause. The lead in copper alloy is not more than 4%, but it can meet the requirements of less than 1000PPM based on the weight of the whole machine.

 FSP TECHNOLOGY INC.

2020.6.19
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