

### PARA LIGHT ELECTRONICS CO., LTD.

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## DATA SHEET

# PART NO.: LH33C204D-HTS

**B/ 0** 

#### CUSTOMER'S APPROVAL :

DCC :

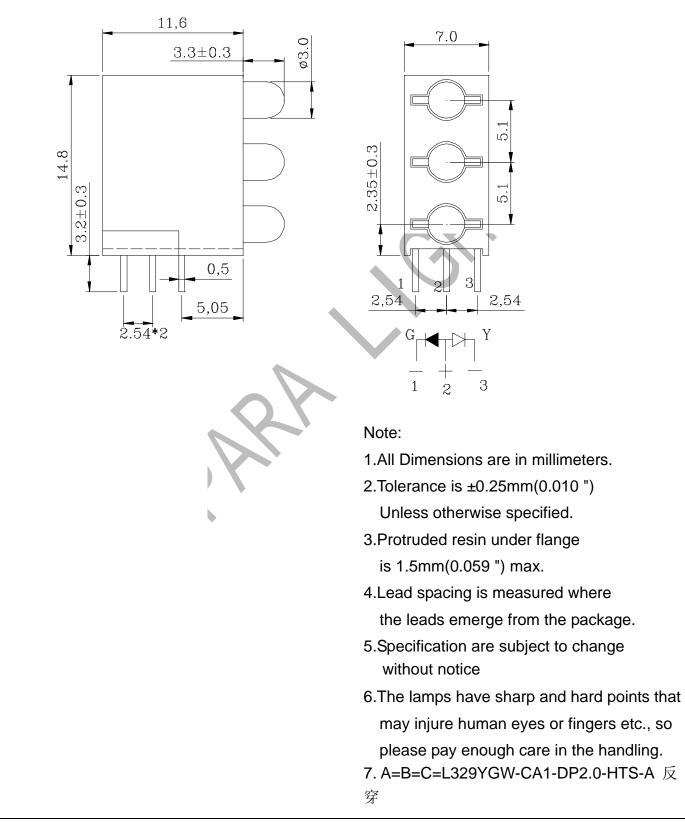
DRAWING NO. : DS-60-11-0072

DATE : 2019-09-21



REV:B/0

#### PACKAGE DIMENSIONS



DRAWING NO. : DS-60-11-0072

DATE: 2019-09-21



## 3.0 mm LED LAMP WITH LHY3303-9A/B-V0 HOLDER

## LH33C204D-HTS

REV:B/0

#### FEATURES

- \* 3.0mm DIA LED LAMP
- \* LOW POWER CONSUMPTION.
- \* I.C. COMPATIBLE.
- \* LONG LIFE SOLID STATE RELIABILITY.
- \* PB FREE PRODUCTS(Compliant with EU's RoHS.)

#### CHIP MATERIALS

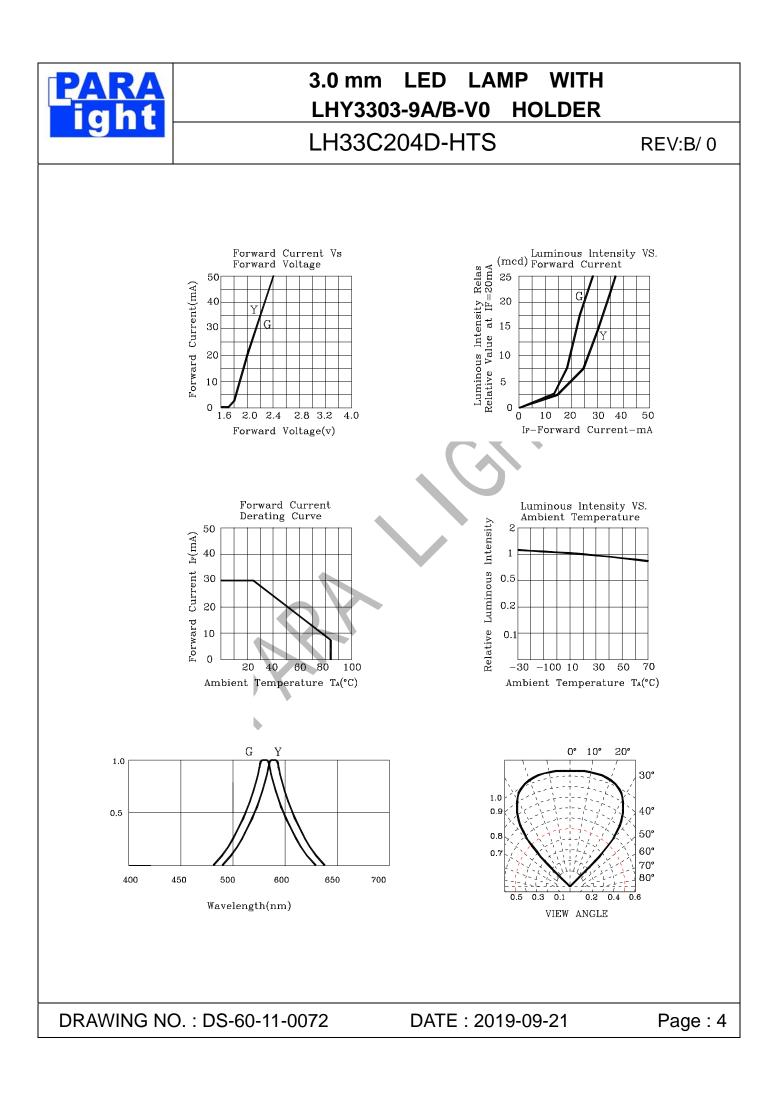
- \* Dice Material : GaAlInP/GaAs & GaAlInP/GaAs
- \* Light Color : YELLOW & YELLOW Green
- \* Lens Color : White Diffused

#### ABSOLUTE MAXIMUM RATING : ( Ta = 25°C )

SYMBOL	PARAMETER	Yellow	Yellow Green	UNIT
PAD	Power Dissipation	78	78	mW
VR	Reverse Voltage	5	5	V
lF	Average Forward Current(Duty=0.1,1KHZ)	30	30	mA
IPF	Peak Forward Current Per Chip (Duty=0.1,1KHz)	120	120	mA
_	Derating Linear From 25°C	0.30	0.30	mA/°C
Topr	Operating Temperature Range	-	40°C to 85°C	
Tstg	Storage Temperature Range	-	40°C to 85°C	

#### ELECTRO-OPTICAL CHARACTERISTICS : ( $Ta = 25^{\circ}C$ )

SYMBOL	DESCRIPTION	TEST	CONDITION	MIN.	TYP.	MAX.	UNIT		
\ <i>1</i> 6			Yellow	1.6	2.0	2.6	V		
Vf	Forward Voltage	IF=20mA	Yellow Green	1.6	2.0	2.6	v		
	Deverse Original		Yellow			100	•		
IR	Reverse Current	VR=5 V	Yellow Green			100	$\mu A$		
ر م	A d Dominant Wavelength		Yellow	580	587	595			
λd		IF=20mA	Yellow Green	560	570	575	nm		
<b>A</b> D	Spectral Line		Yellow		15				
Δλ	Half-Width	IF=20mA	Yellow Green		30		nm		
2 <i>θ</i> 1/2	Half Intensity Angle	IF=20mA	Y/G		80		deg		
L.			Yellow	3.9	8	21.1			
lv	Luminous Intensity	IF=20mA	Yellow Green	2.0	5	15.1	mcd		
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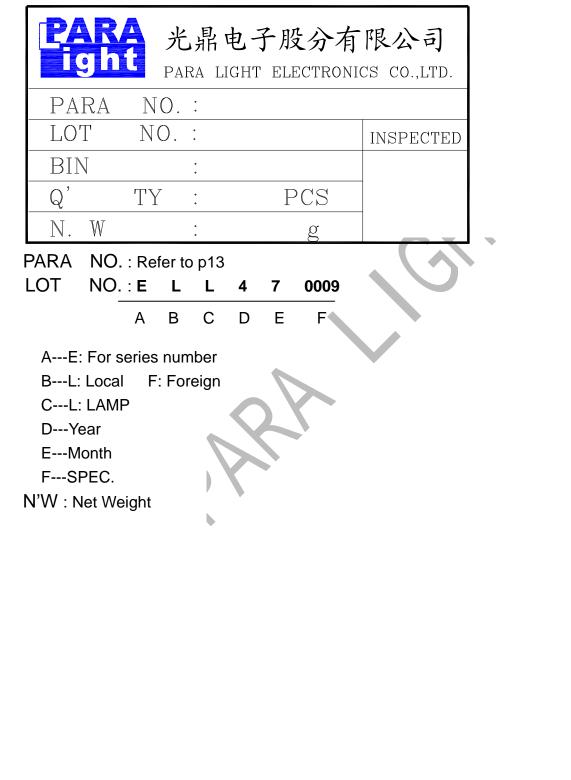


## 3.0 mm LED LAMP WITH LHY3303-9A/B-V0 HOLDER

## LH33C204D-HTS

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### Label Explanation



DATE : 2019-09-21

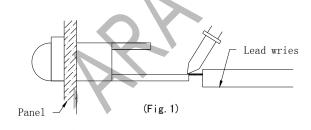


REV:B/0

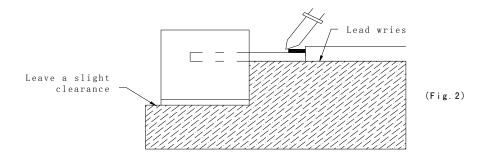
#### •SOLDERING

	-							
METHOD	SOLDERING CONDITIONS	REMARK						
DIP SOLDERING	Bath temperature:260℃ Immersion time: with 10 sec, 1 time	<ul> <li>Solder no closer than 3mm from the base of the package</li> <li>Using soldering flux," RESIN FLUX"</li> </ul>						
Preheat Temperature	Preheat temperature:100-130 sec( 105℃ max)	<ul><li>Attached data of temperatuare cure for your reference</li></ul>						
SOLDERING IRON	Soldering iron: 30W or smaller Temperature at tip of iron: 380°C or lower Soldering time: within 10 sec.	<ul> <li>During soldering, take care not to press the tip of iron against the lead. To prevent heat from being transferred directly to the lead, hold the lead with a pair of tweezers while soldering</li> </ul>						
,	<ol> <li>While soldering</li> <li>While soldering</li> <li>When soldering the lead of LED in a condition that the package is fixed with a panel (See Fig.1),</li> </ol>							

be careful not to stress the leads with iron tip.



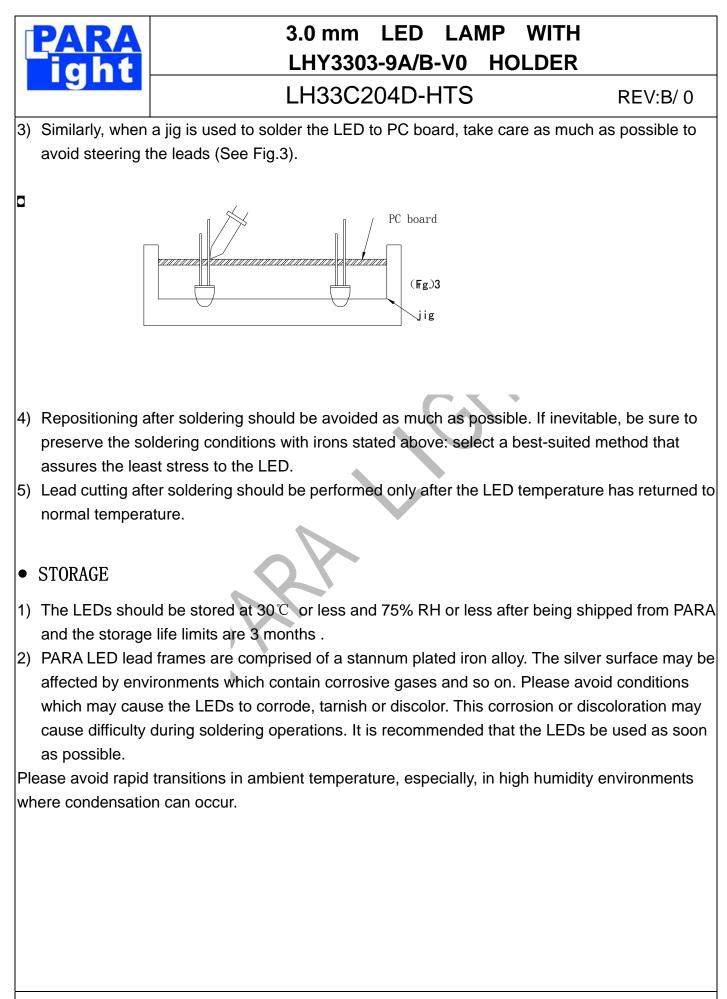
2) When soldering wire to the lead, work with a Fig (See Fig.2) to avoid stressing the package.



Regarding solution in the tinning oven for product-tinning, compound sub-solution made of tin & copper and sliver is proposed with the temperature of Celsius 260. The proportion of the alloyed solution is tin 95.5: copper 3.5: silver 0.5 by percentage. The time of tinning is constantly 3 seconds.

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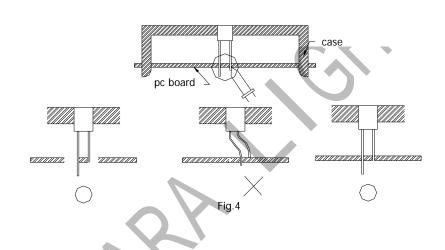
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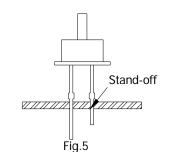
REV:B/0

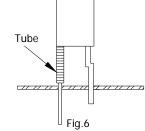
#### •LED MOUNTING METHOD

3) When mounting the LED by using a case, as shown Fig.4, ensure that the mounting holds on the PC board match the pitch of the leads correctly-tolerance of dimensions of the respective components including the LED should be taken into account especially when designing the case, PC board, etc. to prevent pitch misalignment between the leads and board holes, the diameter of the board holes should be slightly larger than the size of the lead. Alternatively, the shape of the holes should be made oval. (See Fig.4)



4) Use LEDs with stand-off (Fig.5) or the tube or spacer made of resin (Fig.6) to position the LEDs.





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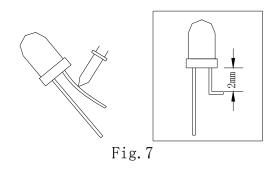
DATE : 2019-09-21



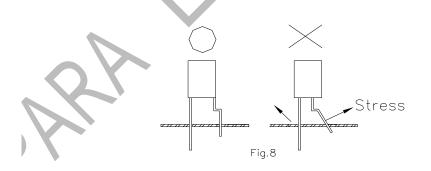
REV:B/0

#### •FORMED LEAD

1) The lead should be bent at a point located at least 2mm away from the package. Bending should be performed with base fixed means of a jig or pliers (Fig.7)

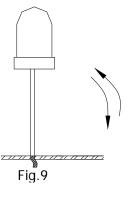


- 2) Forming lead should be carried our prior to soldering and never during or after soldering.
- Form the lead to ensure alignment between the leads and the hole on board, so that stress against the LED is prevented. (Fig.8)



#### •LEAD STRENGTH

- 1) Bend strength
  - Do not bend the lead more than twice. (Fig.9)



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Tensile strength (@Room Temperature)
 If the force is 1kg or less, there will be no problem. (Fig.10)



#### HEAT GENERATION

 Thermal design of the end product is of paramount importance. Please consider the heat generation of the LED when making the system design. The coefficient of temperature increase per input electric power is affected by the thermal resistance of the circuit board and density of LED placement on the board, as well as other components. It is necessary to avoid intense heat generation and operate within the maximum ratings given in this specification.

The operating current should be decided after considering the ambient maximum temperature of LEDs.

#### •CHEMICAL RESISTANCE

- 1) Avoid exposure to chemicals as it may attack the LED surface and cause discoloration.
- 2) When washing is required, refer to the following table for the proper chemical to be sued.
- (Immersion time: within 3 minutes at room temperature.)

SOLVENT	ADAPTABILITY
Freon TE	$\odot$
Chlorothene	$\times$
Isopropyl Alcohol	$\odot$
Thinner	$\times$
Acetone	$\times$
Trichloroethylene	×
Olleable XDo	notuse

NOTE: Influences of ultrasonic cleaning of the LED resin body differ depending on such factors as the oscillator output, size of the PC board and the way in which the LED is mounted. Therefore, ultrasonic cleaning should only be performed after confirming there is no problem by conducting a test under practical.

 $\odot$ --Usable  $\times$ --Do not use.

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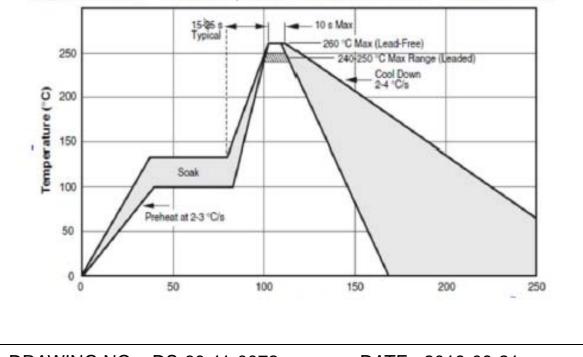
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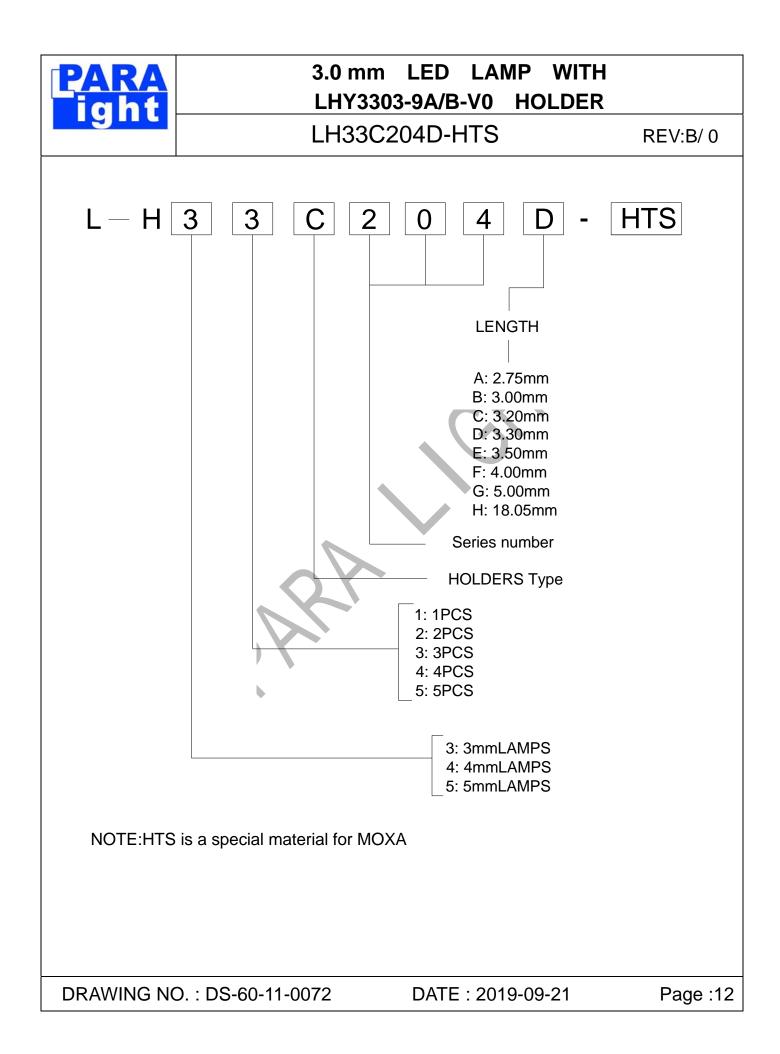
#### OTHERS

- 1) Care must be taken to ensure that the reverse voltage will not exceed the absolute maximum rating when using the LEDs with matrix drive.
- Flashing lights have been known to cause discomfort in people; you can prevent this by taking precautions during use. Also, people should be cautious when using equipment that has had LEDs incorporated into it.
- 3) The LEDs described in this brochure are intended to be used for ordinary electronic equipment (such as office equipment, communications equipment, measurement instruments and household appliances). Consult PARA's sales staff in advance for information on the applications in which exceptional quality and reliability are required, particularly when the failure or malfunction of the LEDs may directly jeopardize life or health (such as for airplanes, aerospace, submersible repeaters, nuclear reactor control systems, automobiles, traffic control equipment, life support systems and safety devices).
- 4) User shall not reverse engineer by disassembling or analysis of the LEDs without having prior written consent from PARA. When defective LEDs are found, the User shall inform PARA directly before disassembling or analysis.
- 5) The formal specifications must be exchanged and signed by both parties before large volume purchase begins.
- 6) The appearance and specifications of the product may be modified for improvement without notice.



7) Recommended Wave Soldering Profile.

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## 3.0 mm LED LAMP WITH LHY3303-9A/B-V0 HOLDER

## LH33C204D-HTS

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#### **BIN CODE LIST**

Luminous Intensity (IV), Unit:mcd@20mA							
Bin Code( <b>Y</b> )	Min	Max					
E	3.90	5.50					
F	5.50	7.70					
G	7.70	10.8					
Н	10.8	15.1					
I	15.1	21.1					

Tolerance of each bin are±15%

Luminous Intensity (IV), Unit:mcd@20mA								
Bin Code( <b>G</b> )	Min	Max						
С	2.00	2.80						
D	2.80	3.90						
E	3.90	5.50						
F	5.50	7.70						
G	7.70	10.8						
Н	10.8	15.1						

Tolerance of each bin are±15%

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## 3.0 mm LED LAMP WITH LHY3303-9A/B-V0 HOLDER

## LH33C204D-HTS

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LH33C204D-HTS package rule Note:

- 1、Each plate of 560 PCS
- 2、Within each small box 5 plate, quantity is 2800 PCS

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**LEONA** UL Acquisition Status of a typical Grade

West View	1202 MILLSON CASE AND		Miránum	Fierne		RTI Mech	anical	Hot	High	High	Arc	IEC	2		Minimum	Flame		RTI Mect	hanical
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12.22			(anm)	(UL94)		Impact	impad	lgn.	ign.	rate	(D495)	(CTI)			(1251)	(UL94)		Impaci	Impac
	10000		0.70	V-2	105	75	85	4	0	-		-	90G50	All	1.5	HB	65	65	65
1.1.2	1300S 1300F	All	1.5	V-2	105	75	85	4	0		$\rightarrow$	100	30(30)		3.0	HB	55	65	65
1	ISUOP		9.0	V-2	105	75	85	Э	0	0	6	O	02022		1.5	HB	65	55	65
			0.75	V-2	120	95	90	4	0	-	-	-	93G33	All	3.0	HB	65	55	65
ł	13025	All	1.5	V-2	120	95	80	.3	0		-	1000	in the		0.75	HB	125	90	120
		1986-2275	3.0	V-2	120	<b>9</b> 5	100	3	0	0	5	a	54G33	All	1.5	HB	125	90	120
Ţ			0.71	V-2	130	105	105	4	0	-		-		1000	3.0	HB	125	BO	120
	14025	All	1,5	V-2	130	105	105	3	0	<u></u>	-			0					0.000
1	1402F	a dec	3.0	V-2	130	105	105	3	0	0	6	1	54G43	All	0.80	HB	65	55	65
		<del>i</del> i	0.69	V-2	120	95	100	4	0	-	-	_	01010	P 414	4.44			~	
	1402SH	Ali	1.5	V-2	120	95	100	3	0		-	_	19-19-19-19-19-19-19-19-19-19-19-19-19-1		0.75	HB	125	105	105
ľ	HULDI	<b>~</b> u	3.0	V-2	120	95	100	2	0	0	6	1	1330G	A	1.5	2 3375	125	105	115
-		7 8	0.75	HB	125	110	115	4	0	_	~			Au	3.0	HB	125	105	120
	13G15	All	1.5	HB	125	110	120	3	0		-	_	127000097775 127000274727		0.71	HB	10.5	75	76
	13015	PAU	3.0	HB	125	110	120	2	0	0	5	0			1.5	- 100 m	105	75	75
-			0.75	HB	<u> </u>	1000	10000	4	0	-		_	MROOT	All		HB	-		-
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2	13G25	Ali	1.5	HB	125	110	110	3	0		-				0.71	V-0	105	65	65
-			3.0	HG	125	110	120	2	0	1	5	0.	FR200	All	1.5	V-0	105	65	65
	0.0.0		0.75	HE	125	105	110	3	a	-	100	100			3.0	٧.0	105	65	65
	130DG	All	1.5	HB	125	105	110	3	0		-		187 (201 ) (SUD)		0.38	V-0 V-0	65 130	65 90	65 105
			3.0	HB	125	110	120	3	0	1	5	0	FR370	All	1.5	V-0	130	105	105
		913-917-119 1916-1	0.75	HB	110	110	115	4	0	-	-				3.0	₩-0	130	105	105
	13G43	All	1.5	HB	110	110	120	2	0	-	1000	-		1.04	0.70	V-0	65	65	65
			3.0	нв	110	110	120	3	0	1	5	0	FR561	All	0.75	V-0	130	90 105	105
															3.0	V-0	130	105	105
	14G15	All	0.75	HB	65	<b>5</b> \$	65	—	-			- 1	1997 - 1997 -		0.75	¥.0	105	105	105
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			0.71	HB	120	90	110	4	٥	100		2000 C			3.2	V-0	105	105	105
•	1402G	All	1.5	HB	120	90	120	3	0				1.1		0.41	V-0	65		65
			3.0	HB	120	100	125	0	D	1	6	1		NC	0.50	V-0	130		65
7	Analis and	ş - 5	0.75	HB	65	65	65	3	Q	-		-	FG172	1000	0.75	V-0	130	115	120
	14G25	All	1.5	HB	140	125	140	3	Ð				2.5	All	1.5 3.0	V-0	130	115	120
ľ	14G33		9.0	HB	140	125	140	9	Ð	0	6	1		1	0.5	V-0 V-0	130	65	65
F	0	- 1	0.75	HB	65	65	55	3	0	_		_		NC	0.72	V-0	65	65	65
	14000	All		HB			10. 15 to 1	10000	0				FG173		0.80	V-0	190	65	120
ľ	14G50	741	1.5 9.0	HB	140	125 125	140	3 9	0	0	5	0		All	1.5 3.0	V-0 V-0	130 130	65 65	120 120

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		10 10 M	Sec.	202203	Control Control	
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QMRZ22nponent - Plastics						E48
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1300S, 1300F						
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ALL	0.71	V-2	4	0	105	75 85
	1.5	V-2	4	0	105	'5 85
	3.0	V-2	3	0	105	75 85
	en exetive Treaties lades: (C	TI): 0			Dimensional Stabili	y (%): <b>0</b>
Con	nparative Tracking Index (C					
	ge Arc Tracking Rate (HVI			High Volt, L	ow Current Arc Resis (	0495): <b>6</b>
High-Volta UL94 small-scale test data plastic material	ge Arc Tracking Rate (HVT Dielectric Strength (kV/m does not pertain to building ma	FR): 0 imm): - aterials, furnishings and related or parts of end-product devices and	I appliances, where	Vo all-scale test data is e the acceptability of	olume Resistivity (10xohi intended solely for determir	n-cm): - ing the flammability red by ULI. Compo
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High-Volta UL94 small-scale test data plastic material Report Date: 7/11/1972 IEC and ISO T	ge Arc Tracking Rate (HVT Dielectric Strength (kV/m does not pertain to building m s used in the components and	TR): 0 mm): - aterials, furnishings and related or parts of end-product devices and Underwriters La Test Method	l appliances, wher	Vo all-scale test data is a the acceptability of c® Units	olume Resistivity (10xoh) intended solely for determin f the combination is determin Thickness Tested (mm)	n-cm): - ing the flammability ted by ULI. Compo Plast Value
High-Volta UL94 small-scale test data plastic material Report Date: 7/11/1972 IEC and ISO T	ge Arc Tracking Rate (HVT Dielectric Strength (kV/m does not pertain to building m s used in the components and	TR): 0 mm): - aterials, furnishings and related or parts of end-product devices and Underwriters La Test Method	l appliances, wher	Vo all-scale test data is a the acceptability of c® Units	Dume Resistivity (10x0h) intended solely for determin f the combination is determin Thickness Tested (mm) 0.71	n-cm): - ing the flammability led by ULI. Compo Plast Plast Value V-2 (ALL
High-Volta UL94 small-scale test data plastic material Report Date: 7/11/1972 IEC and ISO T Fest Name EC Flammability Slow-Wire Flammabilit	ge Arc Tracking Rate (HVT Dielectric Strength (kV/m does not pertain to building m s used in the components and <b>Cest Methods</b>	TR): 0 mm): - aterials, furnishings and related or parts of end-product devices and Underwriters La Test Method IEC 60695-11-10 IEC 60695-2-12	l appliances, wher	Vo all-scale test data is a the acceptability of c® Units	Dume Resistivity (10x0h) intended solely for determin f the combination is determin Thickness Tested (mm) 0.71 1.5	n-cm): - ing the flammability led by ULI. Compo Plast Value V-2 (ALL V-2 (ALL
High-Volta UL94 small-scale test data plastic material Report Date: 7/11/1972 IEC and ISO T Fest Name EC Flammability Slow-Wire Flammability Slow-Wire Ignition (GW	ge Arc Tracking Rate (HVT Dielectric Strength (kV/m does not pertain to building m s used in the components and <b>Cest Methods</b> y (GWFI) ITT)	TR): 0 mm): - aterials, furnishings and related or underwriters La Test Method IEC 60695-11-10 IEC 60695-2-12 IEC 60695-2-13	l appliances, wher	Vc all-scale test data is a the acceptability of c® Units Class (color) C C	Dume Resistivity (10x0h) intended solely for determin f the combination is determin Thickness Tested (mm) 0.71 1.5	n-cm): - ing the flammability led by ULI. Compo Plast Value V-2 (ALL V-2 (ALL
High-Volta UL94 small-scale test data plastic material Report Date: 7/11/1972 IEC and ISO T Fest Name EC Flammability Slow-Wire Flammability Slow-Wire Ignition (GW EC Comparative Track	ge Arc Tracking Rate (HVT Dielectric Strength (kV/m does not pertain to building m s used in the components and <b>Cest Methods</b> y (GWFI) ITT)	TR): 0 mm): - aterials, furnishings and related or parts of end-product devices and Underwriters La Test Method IEC 60695-11-10 IEC 60695-2-12 IEC 60695-2-13 IEC 60112	l appliances, wher	Vc all-scale test data is a the acceptability of c Units Class (color) C C C Volts (Max)	Dume Resistivity (10x0h) intended solely for determin f the combination is determin Thickness Tested (mm) 0.71 1.5	n-cm): - ing the flammability led by ULI. Compo Plast Value V-2 (ALL V-2 (ALL
High-Volta UL94 small-scale test data plastic material Report Date: 7/11/1972 IEC and ISO T Fest Name EC Flammability Slow-Wire Flammability Slow-Wire Ignition (GW	ge Arc Tracking Rate (HVT Dielectric Strength (kV/m does not pertain to building m s used in the components and <b>Cest Methods</b> y (GWFI) (ITT) ing Index	TR): 0 mm): - aterials, furnishings and related or underwriters La Test Method IEC 60695-11-10 IEC 60695-2-12 IEC 60695-2-13	l appliances, wher	Vc all-scale test data is a the acceptability of c® Units Class (color) C C	Dume Resistivity (10x0h) intended solely for determin f the combination is determin Thickness Tested (mm) 0.71 1.5	n-cm): - ing the flammability led by ULI. Compo Plast Value V-2 (ALL V-2 (ALL

#### 塑膠材料符合性保證書 CERTIFICATE OF COMPLIANCE OF PLASTIC MATERIAL

	供應商			
	VENDER <u>光</u> ,	鼎電子股份有限公司	1	
	料號		品名	
	PART NUMBER		PART DESCRIPTION	光鼎 holder 產品
	數量/訂單號碼		出貨日期	
	QUANTITY/P.O. NO.		SHIPPING DATE	
	原料製造商			
	MATERIAL SUPPLIER		连云港光鼎电子有限公	、司
	原料品名/型號/規格 MATERIAL DESCREPTIO SPEC	N / MODEL /	光鼎holder產	▼ <u> 茶</u> 口 <u> </u> 王 四
	原料 UL 號碼		原料防火等級	
	MATERIAL UL FILE NUM	BER	MATERIAL FLAMMA	BILITY CLASS
	E4828	5	V	-2
供應商	保證 VENDER GUARAN	TY		
1.	本批產品確實符合 UL 跟蹤檢 替,本公司願負賠償之責。	驗服務程序(FUS)的要	求,確實依上述規格供應,	若有變更冒
	FOR THIS P.O., IF THERE IS RESPONSIBLE FOR THE CO		THE LIST ABOVE, WE WI	ILL BE
2.	本批產品使用的回收料(次料)	不超過 25%		
	THE REPROCESSED MATER	RIAL USED IN THIS SH	HIPMENT DOES NOT EXC	EED 25%
	供應商簽章及蓋公司章 VENDER SIGNATURE &	ς COMPANY SEAL	李子儀	有子光 景眠公司份電

Form Number PD.208