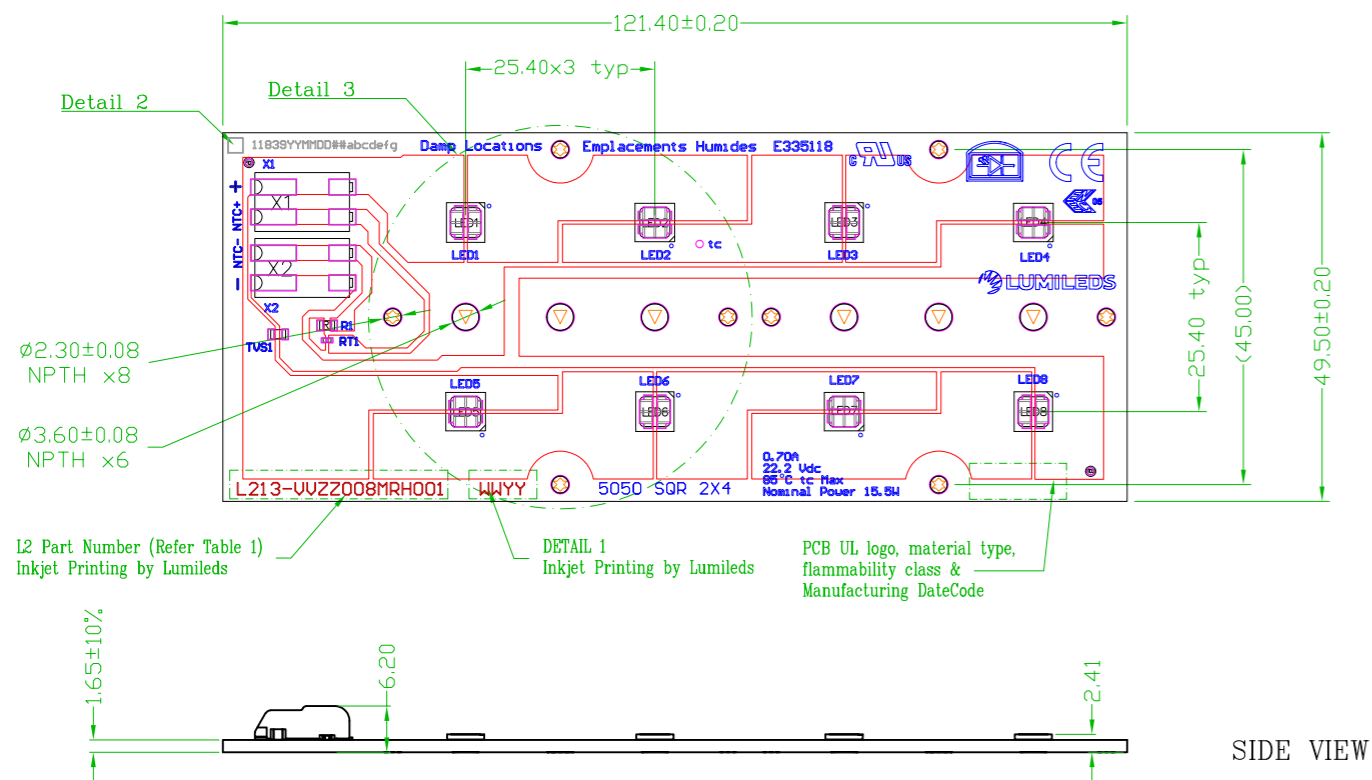


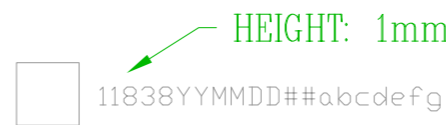
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ASSOCIATED 3D MODEL IS
GEOMETRY MASTER
DO NOT MODIFY THE GEOMETRY IN THIS
2D DRAWING. GEOMETRY MODIFICATIONS
MUST BE MADE TO THE MASTER 3D MODEL
AND USED TO UPDATE THIS DRAWING.

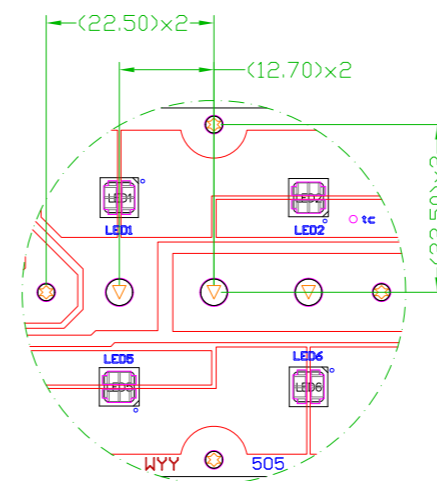
Symbol	Count	Hole Size	Plated
▽	6	3.600mm (141.73mil)	NPTH
☆	8	2.300mm (90.55mil)	NPTH
	14 Total		



Detail 1 :
Inkjet Printing by Lumileds
text height 1.6mm min.



Detail 2
2D Barcode 2.0x2.0mm (20 digits)



Detail 3

REVISION HISTORY PAGE					
ZONE	REV.	REVISIONS HISTORY	REVISED BY	REVISED DATE	CD NUMBER
-	A	Initial Release	Chua Guek King	2020-04-14	Feasibility
-	B	ENEC logo, CE logo, UL logo, Built-in logo & E-File number added in silkscreen layer	Chua Guek King	2020-05-14	Feasibility
-	C	Table 1 updated & 'Future EcoDesign Data' added in InkJet printing layer	Chua Guek King	2020-06-04	Feasibility
-	D	'USEFUL LUMINOUS FLUX LUMENS' & 'BEAM ANGLE' Removed From Table 1 & InkJet printing layer. Turn life cycle from feasibility to production	Chua Guek King	2020-07-22	CD-056#73

NOTES:

1. DIMENSION
 - 1.1 UNLESS OTHERWISE SPECIFIED
 - 1.2 CRITICAL DIMENSIONS ARE INDICATED BY (*) WITH CPK ≥ 1.33 ; AND WITH A NUMBER ENCLOSED WITH A CIRCLE, THE LAST CRITICAL DIMENSION IS ENCLOSED WITH A SQUARE
 - 1.2.1 PCB LENGTH TOLERANCE
= $\pm 0.1\text{mm}(<100\text{mm})$, $\pm 0.2(<200\text{mm})$, $\pm 0.25\text{mm}(<300\text{mm})$
 - 1.2.2 PCB WIDTH TOLERANCE
= $\pm 0.1\text{mm}(<100\text{mm})$, $\pm 0.2(<200\text{mm})$, $\pm 0.25\text{mm}(<300\text{mm})$
 - 1.2.3 PCB HOLE POSITIONAL TOLERANCE
= $\pm 0.1\text{mm}$
 - 1.2.4 PCB WARPAGE (BOW & TWIST) ALLOWANCE
= $<0.75\%$ per IPC-TM-650 TEST METHOD

- ## 2. ASSEMBLY SPECIFICATIONS
- ### 2.1 MOUNT COMPONENTS IN ACCORDANCE WITH ANSI/IPC-A-610 CLASS 2

3. LASER 2D MATRIX CODE LABELING
- 3.1 LASER 2D MATRIX CODE INFORMATION:
- 11839 — PCB PART NUMBER
- YYMMDD — DATE CODE
- abcd — PANEL SERIAL NUMBER FROM **0001** to **9999**
- ## — SUPPLIER CODE
- efg — INDIVIDUAL BOARD SERIAL NUMBER FROM **001** to **00x** (ONLY FOR BOARD ID)

PCB SPECIFICATIONS

BASE MATERIAL = MCPCB
CONDUCTIVE SURFACE FINISHING = OSP
SOLDERMASK = White
SILKSCREEN = BLACK
SOLDER MASK TO METALLIZATION MISREGISTRATION = $\pm 75\mu\text{m}$
ALL MATERIALS MUST BE ROHS COMPLIANCE

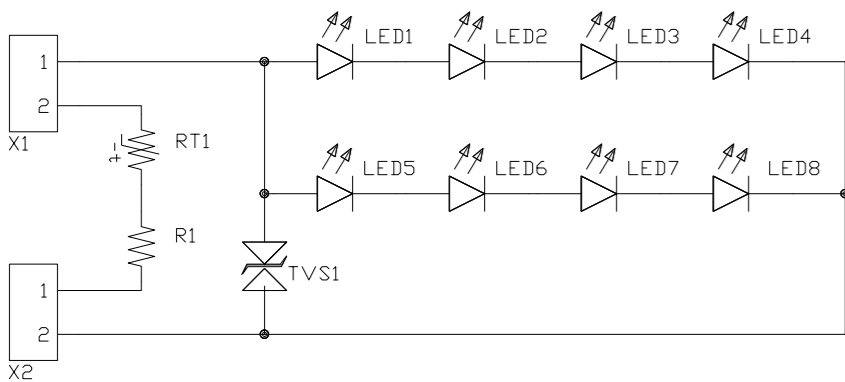
TABLE 1



LUMILEDS BOARD P/N	LUMILEDS L2 P/N L213-VVZZ008MRH001	CUSTOMER PART NUMBER	LED PART NUMBER	DESCRIPTION	CCT [Vv]	CRI [Zz]
324700011839	L213-2770008MRH001	NA	L150-27705006000S0	8up LED BOARD with LUXEON 5050 SQR 2700K 70CRI	2700K [27]	70 [70]
	L213-3070008MRH001		L150-30705006000S0	8up LED BOARD with LUXEON 5050 SQR 3000K 70CRI	3000K [30]	70 [70]
	L213-4070008MRH001		L150-40705006000S0	8up LED BOARD with LUXEON 5050 SQR 4000K 70CRI	4000K [40]	70 [70]
	L213-3080008MRH001		L150-30805006000S0	8up LED BOARD with LUXEON 5050 SQR 3000K 80CRI	3000K [30]	80 [80]
	L213-2780008MRH001		L150-27805006000S0	8up LED BOARD with LUXEON 5050 SQR 2700K 80CRI	2700K [27]	80 [80]
	L213-4080008MRH001		L150-40805006000S0	8up LED BOARD with LUXEON 5050 SQR 4000K 80CRI	4000K [40]	80 [80]

BOM TABLE

ITEM	DESCRIPTION	QTY	DES REF#
1	LUXEON 5050 SQR	8	LED1- LED8
2	2 Pole Connector	2	X1, X2
3	TVS, 0805	1	TVS1
4	Res, 0805	1	R1
5	NTC, 0402	1	RT1

CIRCUIT DIAGRAM



<div>TOLERANCE TYPE</div> <div>DO NOT SCALE THIS METRIC DRAWING</div>		<div>Chua Guek Kim</div> <div>DRAWN BY</div>		<div>2020-03-16</div> <div>DATE YYYY-MM-DD</div>	<div>5050 SQR 2x4</div> <div>8up (LUXEON 5050 SQR)</div> <div>POD Drawing</div> <div>TITLE<div>FRAME DATE: 1-April-2015</div></div>			<div></div> <div>PART NUMBER L213-VVZZ008MRH00</div>	
		<div>Chow Seok Chen</div> <div>ENGINEER/CHECKER</div>		<div>2020-03-19</div> <div>DATE YYYY-MM-DD</div>					
		<div>UNLESS OTHERWISE SPECIFIED</div> <div>* DIMENSIONS ARE IN MILLIMETERS</div> <div>* THIRD ANGLE PROJECTION </div> <div>* ADHERENCE TO DWG A-5951-1561-1 (COMPANY STD. SECTION 608) AND A-5951-1745-1 (GSSE) IS REQUIRED</div>							
				1 OF 1 SHEET		1:1 SHEET SCALE	A2 SIZE	PROD00005093 DOCUMENT NUMBER	