

OPULENT RESTRICTED

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NOTES:

1.0 DIMENSIONAL CRITERIA

- 1.1 Critical dimension are indicated with a number enclosed within circle. The last critical dimension is enclosed by a square.

2.0 LED SELECTION

- 2.1 Detail of LED Flux Category, Forward Voltage and Dominant Wavelength are referred to each customer requirement respectively.

3.0 MCPCB SPECIFICATION

- 3.1 Copper trace: 1oz
- 3.2 Solder mask color: Matt Black
- 3.3 Aluminium grade: AL5052
- 3.4 Aluminium thickness: 1.5mm
- 3.5 Dielectric: Pre-Preg (thickness 0.10mm)
- 3.6 Conductive surface finishing: OSP(Entek-Cu106A)
- 3.7 All MCPCB to be electrically tested for short and open connections
- 3.8 Adhesion strength for the solder mask and Aluminium plate >2.0kg/cm²
- 3.9 No delamination between solder mask and Aluminium plate
- 3.10 No contamination on both side of board
- 3.11 Solder paste / pad to cover 100% of the copper pad (Alpha Metal OMS25)
- 3.12 Solder paste height = 0.1 - 0.15mm (stencil thickness = 5mil)
- 3.13 Board Warpage = ±1mm
- 3.14 Maximum burrburs up on Aluminium plate side is 0.1mm

4.0 PART IDENTIFICATION

- 4.1 All text printing should be clear
- 4.2 Back Side Inkjet Printing

XXXXX YYYYYYYY
 WWWWWZZZZZZZ
 REBELSTARMMNN

First Row:

X : Product Bin Code

Y : Serialized Number

Second Row:

W : Manufacture Date (Work Week)

Z : LED Part No.

Third Row:

M : Color Marking Code

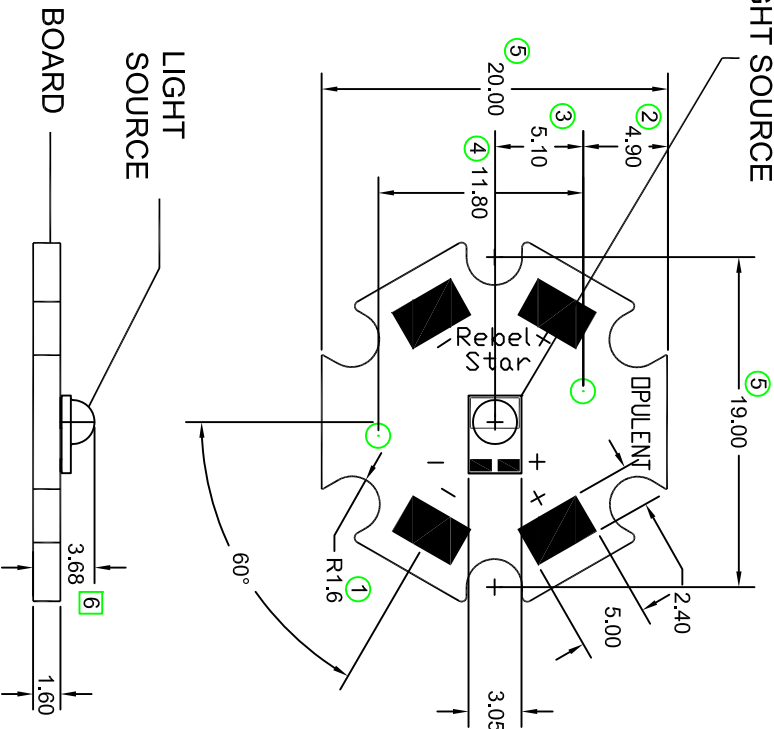
N : LED Lumens

5.0 LED PLACEMENT ACCURACY

- 5.1 All placement accuracy for LED is in radius ±0.25mm

ENGINEERING RESPONSIBILITY		USING DIVISIONS		DOCUMENT NUMBER	
REV	DATE	REV	DATE	REV	DATE
STM		REVISED BY	AK DNG	APPROVED BY	MS NG
AS	As Issued per customer required				27 Jun 08

LIGHT SOURCE



DO NOT SCALE THIS DRAWING	UNIT SYMBOL/UNIT	ASME Y14.5M-1994	UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	TOLERANCES UNLESS OTHERWISE SPECIFIED
1	1	Rebel Star MCPCB	26 Jun 08	MS NG	XXXX +/- DIM XXX +/- DIM
2	1	Luoson Rebel LED	27 Jun 08	MS NG	

ITEM	QTY	PART/MATERIAL-DESCRIPTION	MATL-PART NO.	MATL-DWG NO.	MATL-SPEC.
1	1	Rebel Star MCPCB			
2	1	Luoson Rebel LED			

CHECKER	DATE	TITLE	FILE NAME
MS NG	27 Jun 08	MCPCB Rebel Star	MCPCB Rebel Star

RELEASE TO PRODUCTION	DATE	SIZE	FULL SCALE	SHEET	OF	DOCUMENT NUMBER
MS NG	27 Jun 08	C	1	1	1	MCPCB Rebel Star - 01