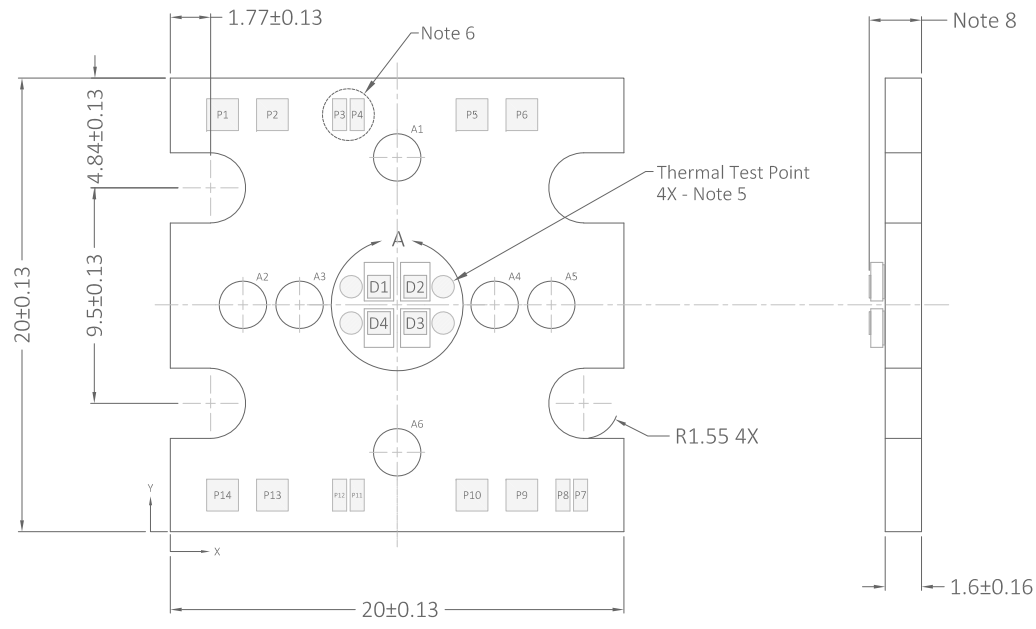
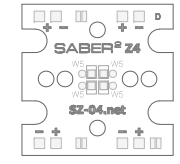


REVISIONS			
REV	DESCRIPTION	BY	DATE
B	Added additional board markings	RW	Jan 16/18
C	1. Enlarged Carclo positioning slots from 3.0mm to 3.1mm 2. Removed redundant thermal test points	RW	Jul 29/18
D	1. Added additional details about solder pad locations 2. Updated drawing to our current CAD drawing standards	RW	Sep 21/24



Scale 3:1



PCB Pads & Markings
Scale 1:1

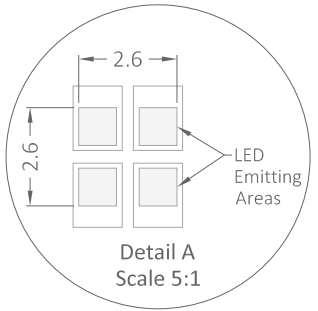
NOTES:

1. Base is a Polytronics aluminum MCPCB with white soldermask and black markings.
2. Bottom of the MCPCB base is uncoated and electrically neutral.
3. Solder pads are ENIG plated.
4. LED module must be mounted to a suitable heat sink with a thermally conductive interface material such as our pre-cut thermal adhesive tape. (Part LXT-SZ04-12)
5. The thermal test pads are electrically connected to the LED anodes/cathodes. See the datasheet for instructions for determining LED junction temperature.
6. To power the LEDs in series, create a solder bridge between the series connection pads 3|4, 7|8, and 11|12. See the datasheet for additional connection information.
7. Solder pads are located from the X/Y baseline to the center of the solder pad.
8. The maximum overall height will depend on the mounted LED:

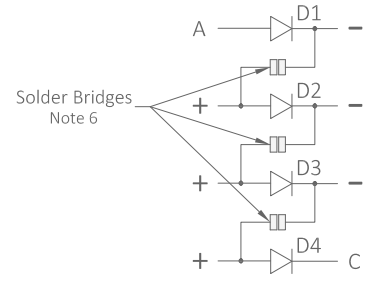
- Blue, Green Royal Blue & Cyan = 2.65mm
- Red, Red-Orange, Amber & Deep Red = 2.95mm
- Lime and PC Amber = 2.69mm
- UV = 2.72mm

Hole Table				
Hole ID	X Loc	Y Loc	Dia	Loc Tol
A1	10.00	16.50	2.1 ±0.08	±0.04
A2	3.20	10.00	2.1 ±0.08	±0.04
A3	5.70	10.00	2.1 ±0.08	±0.04
A4	14.30	10.00	2.1 ±0.08	±0.04
A5	16.80	10.00	2.1 ±0.08	±0.04
A6	10.00	3.50	2.1 ±0.08	±0.04

Solder Pad Locations (Note 7)				
Pad ID	X Loc	Y Loc	Rotation	Size
P1	2.3	18.4	0	1.4 x 1.4
P2	4.5	18.4	0	1.4 x 1.4
P3	7.5	18.4	0	0.6 x 1.4
P4	8.2	18.4	0	0.6 x 1.4
P5	13.3	18.4	0	1.4 x 1.4
P6	15.5	18.4	0	1.4 x 1.4
P7	18.1	1.6	0	0.6 x 1.4
P8	17.3	1.6	0	0.6 x 1.4
P9	15.5	1.6	0	1.4 x 1.4
P10	13.3	1.6	0	1.4 x 1.4
P11	8.2	1.6	0	0.6 x 1.4
P12	7.5	1.6	0	0.6 x 1.4
P13	4.5	1.6	0	1.4 x 1.4
P14	2.3	1.6	0	1.4 x 1.4



Detail A
Scale 5:1



Connection Schematic
(Note 6)

SCALE	As noted	DRAWN	RW	May 14/15	SOLDER PASTE	AIM NC-258
UNITS	MM	CHECKED	WW	May 14/15	REFLOW PROFILE	Standard
TOLERANCE	As noted	ISSUED		May 15/15	QTY PER PANEL	9



QTY	DESCRIPTION
1	SW-04 Polytronics Aluminum MCPCB
4	LUXEON Z LED

Luxeon Star LEDs
service@luxeonstar.com / luxeonstar.com

PROJECT
SABER² Z4
20mm Square LUXEON Z Color Mixing Array

Quadica Developments Inc.

PART: SZ-04-XX REV: D