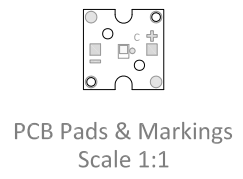
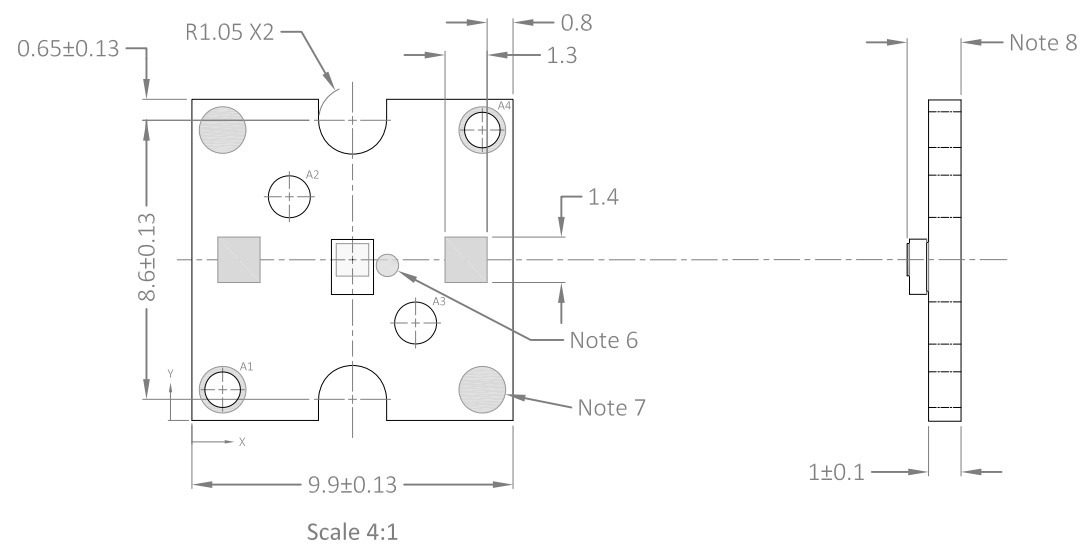
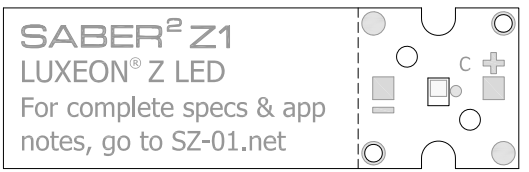


REVISIONS			
REV	DESCRIPTION	BY	DATE
C	Updated base to Polytronics TCB-8 PCB technology	RW	Nov 20/19
B	1. Reduced base thickness from 1.6mm to 1mm 2. Added positioning mask cut-through for Carclo 104 series optics 3. Updated base to Nanotherm® MCPB technology	RW	Aug 14/18

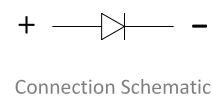


- NOTES:**
- The SABER 2 Z1 is delivered attached to a carrier tab for easy handling during shipping and production. The carrier tab is v-scored so that the LED module can be separated from the carrier.
  - Base is Polytronics TCB-8 PCB with white soldermask and gold & black markings.
  - Bottom of the base is uncoated and electrically neutral.
  - Solder pads are ENIG plated.
  - 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-Z-10)
  - Thermal test point. The test pad is electrically connected to the LED anode. See the datasheet for instructions for determining LED junction temperature.
  - Corner pads are NOT electrically connected. Pads are designed for mounting Carclo 104 series of optics.
  - The maximum overall height will depend on the mounted LED:
    - Blue, Green, Royal Blue & Cyan = 1.99mm
    - Red, Red-Orange, Amber & Deep Red = 2.29mm
    - Lime & PC Amber = 2.03mm
    - IR Compact Line = 2.23mm
    - UV = 2.06mm



SABER<sup>2</sup> Z1 Carrier Tab - Note 1  
Scale 2:1

Hole ID	X Loc	Y Loc	Dia	Loc Tol
A1	0.95	0.95	1.1±0.05	±0.075
A2	3.00	6.90	1.3±0.05	
A3	6.90	3.00	1.3±0.05	
A4	8.95	8.95	1.1±0.05	



QTY	DESCRIPTION
1	SZ-01 Polytronics TCB-8 PCB
1	LUXEON Z LED
Luxeon Star LEDs service@luxeonstar.com / www.luxeonstar.com	
PROJECT	
<b>SABER<sup>2</sup> Z1</b> <b>LUXEON Z 10mm Square LED Module</b>	
Quadica Developments Inc.	
PART: SZ-01-XX	REV: C

SCALE	As noted	DRAWN	RW	Aug 14/18	SOLDER PASTE	AIM NC-258
UNITS	MM	CHECKED	WW	Aug 14/18	REFLOW PROFILE	Standard
TOLERANCE	As noted	ISSUED		Sept 3/18	QTY PER ARRAY	9

