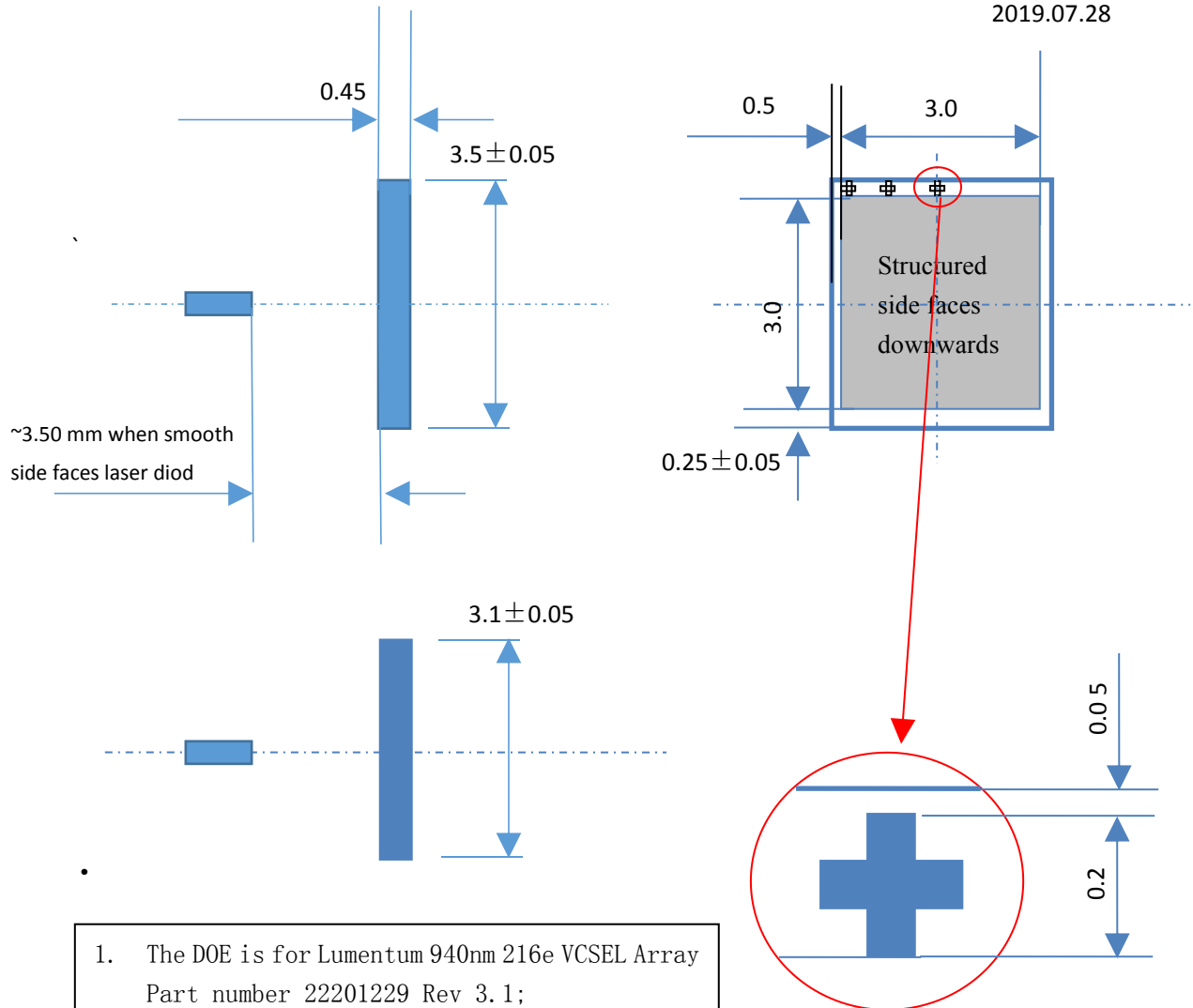


Wuxi OptonTech Ltd

Collimation integrated DOE for

Lumentum 940nm 216e VCSEL Array Part number: 22201229 Rev3.1

2019.07.28



1. The DOE is for Lumentum 940nm 216e VCSEL Array Part number 22201229 Rev 3.1;
2. The Element size 3.1x3.5 mm, and the diffractive receiving area is 3.0 x 3.0 mm;
3. 3.1 mm corresponds to 11 repetitions (70 deg FOV), and 3.5 mm corresponds to 13 repetitions (72 deg FOV) ;
4. Material: Fused silica;
5. Three marks are visible with naked eyes;
6. When three marks are at the upper right of the structured area, it indicates the structured side faces upwards;
7. The middle line of one mark coincides with the middle line of the pattern and the element;
8. The edge of one mark is aligned with the edge of the pattern.

Magnified image of the mark

No	Item	Typical value	Remarks
1	Laser type	VCSEL	
2	Light emitting area	427 x 371 μm	
3	Working wavelength	940 nm @ 25 °C	
3	Wavelength tolerance	± 10 nm	
4	Material	Whole fused silica	
4	Material softening point	> 1000 °C	
5	Working temperature	> 1000 °C	
7	Element dimensions	3.1 x 3.5 mm	± 0.05 mm
8	DOE receiving size	3.0 x 3.0 mm	± 0.05 mm
9	Element thickness	0.45 mm	
10	Repetition (vertical, horizontal)	11 x 13	
11*	FOV (D/V/H)	90 / 70 / 72 deg	± 0.5 deg
12	Total dots number	30888	

* 3.1mm corresponds to 11 replications and 70° FOV, and 3.5 mm corresponds to 13 replications and 72° FOV.