# TINA-O

**~35° x 15° oval beam. Assembly with holder, installation tape and location pins.**

## TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | Ø 16.1 mm |
| Height | 9.5 mm |
| Fastening | tape, pin |
| ROHS compliant | yes |

## MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| TINA-XP-O | Single lens | PMMA | | |
| TINA-HLD-PIN-BLK | Holder | PC | | |
| TINA-TAPE3 | Tape | PU tape | | |

## ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| FA11204_TINA-O<br>» Box size: | Single lens | 2016 | 288 | 144 | 4.1 |


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Bottom view

Isometric view

Front view

Top view

Materials
Lens: PMMA
Holder: PC
Tape: PU Foam

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| | | | |
|---|---|---|---|
| DRAWN BY: as | DATE: 10.9.2012 | DRAWING TITLE: Mechanical Drawing TINA-OSL | |
| CHECKED BY: sn | DATE: - | SIZE: A4 | PART NUMBER: TINA-OSL / REV: 001 |
| DESIGNED BY: - | DATE: - | SCALE: 2:1 | WEIGHT: 1,47 g / SHEET: 1/1 |


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## PHOTOMETRIC DATA (MEASURED):

CREE

| | |
|---|---|
| LED | XB-H |
| FWHM | 38.0 + 16.0° |
| Efficiency | 83 % |
| Peak intensity | 3.600 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

NICHIA

| | |
|---|---|
| LED | NVSW3x9A |
| FWHM | 37.0 + 20.0° |
| Efficiency | 82 % |
| Peak intensity | 2.800 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | Duris S5 (2 chip) |
| FWHM | 38.0 + 16.0° |
| Efficiency | 86 % |
| Peak intensity | 3.400 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Black Flat |
| FWHM | 40.0 + 10.0° |
| Efficiency | 86 % |
| Peak intensity | 5.600 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

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## PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 150 |
| FWHM | 32.0 + 14.0° |
| Efficiency | 91 % |
| Peak intensity | 3.330 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 80 |
| FWHM | 34.0 + 12.0° |
| Efficiency | 80 % |
| Peak intensity | 3.800 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | SFH 4715S |
| FWHM | 40.0 + 16.0° |
| Efficiency | 0 % |
| Peak intensity | 0.000 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | SFH 4725S |
| FWHM | 39.0 + 15.0° |
| Efficiency | % |
| Peak intensity | cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |


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## PHOTOMETRIC DATA (MEASURED):

SAMSUNG

| | |
|---|---|
| LED | LH351A |
| FWHM | 34.0 + 16.0° |
| Efficiency | 90 % |
| Peak intensity | 2.460 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z8Y22P |
| FWHM | 37.0 + 18.0° |
| Efficiency | 79 % |
| Peak intensity | 2.700 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

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## PHOTOMETRIC DATA (SIMULATED):

NICHIA

| | |
|---|---|
| LED | NVSxx19B/NVSxx19C |
| FWHM | 38.0 + 17.0° |
| Efficiency | 85 % |
| Peak intensity | 3.500 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | SFH 4715AS |
| FWHM | 44.0 + 15.0° |
| Efficiency | 89 % |
| Peak intensity | 0.000 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

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## GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

## MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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