

| REV. | DESCRIPTION          | DATE     | APPROVED |
|------|----------------------|----------|----------|
| F    | Engineering Release. | 10/03/12 | T. Y.    |
|      |                      |          |          |
|      |                      |          |          |
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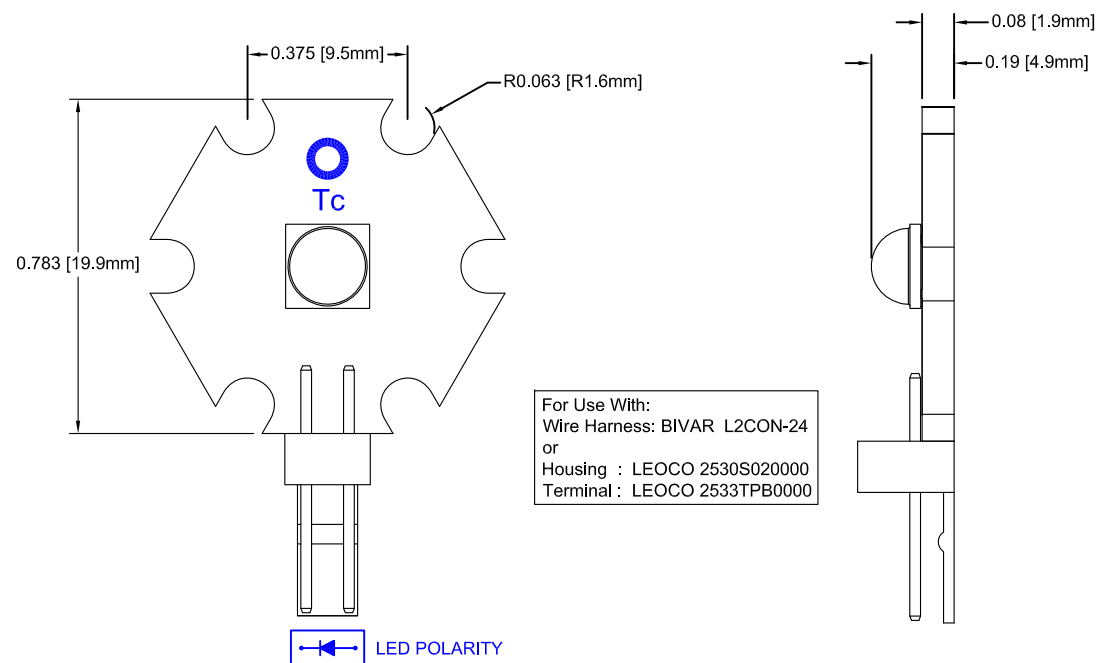


Table 1: Typical Characteristics without Additional Heat Sink

| Part Number | CCT (K) | CRI | Typical Luminous Flux @ If = 400mA, Tc=70C (lm) | Typical Luminous Flux @ If = 750mA, Tc=100C (lm) | Typical DC Forward Current,Vf (V) | Viewing Angle, Axis 1 / Axis2 (°) |
|-------------|---------|-----|-------------------------------------------------|--------------------------------------------------|-----------------------------------|-----------------------------------|
| L2-MLC1-F   | 6500    | 65  | 144                                             | 236                                              | 2.8 ~ 2.9                         | 125                               |
| L2-MLN1-F   | 4100    | 75  | 124                                             | 202                                              | 2.8 ~ 2.9                         | 125                               |
| L2-MLW1-F   | 3100    | 80  | 103                                             | 169                                              | 2.8 ~ 2.9                         | 125                               |

Table 2: Absolute Maximum Ratings with Thermal Management

| Part Number | CCT (K) | CRI | Typical Luminous Flux @ If = 1000mA, Tc=110C (lm) | Typical Luminous Flux @ If = 3000mA, Tc=60C (lm) | Typical DC Forward Current,Vf (V) | Viewing Angle, Axis 1 / Axis2 (°) |
|-------------|---------|-----|---------------------------------------------------|--------------------------------------------------|-----------------------------------|-----------------------------------|
| L2-MLC1-F   | 6500    | 65  | 281                                               | 660                                              | 3.0 ~ 3.3                         | 125                               |
| L2-MLN1-F   | 4100    | 75  | 241                                               | 566                                              | 3.0 ~ 3.3                         | 125                               |
| L2-MLW1-F   | 3100    | 80  | 201                                               | 472                                              | 3.0 ~ 3.3                         | 125                               |

|                                                      |                          |                                                                                                                                                                 |                       |
|------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED ) |                          | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |                       |
| DECIMALS                                             | ANGULAR                  |                                                                                                                                                                 |                       |
| .X ± .1                                              | X° ± 1°                  |                                                                            |                       |
| .XX ± .02                                            |                          |                                                                                                                                                                 |                       |
| .XXX ± .010                                          |                          | <b>TITLE:</b> L2 Starboard Light Engine                                                                                                                         |                       |
| DESIGNED:<br><b>Brian Oliver</b>                     | DATE:<br><b>11/02/11</b> | <b>PART NO:</b><br><b>L2-MLXX-F</b>                                                                                                                             | REVISION:<br><b>F</b> |
| CHECKED:<br><b>M. Chen</b>                           | DATE:<br><b>11/02/11</b> | <b>CAGE CODE : 32559</b>                                                                                                                                        | <b>SHEET # 1 OF 1</b> |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.      |                          |                                                                                                                                                                 |                       |

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