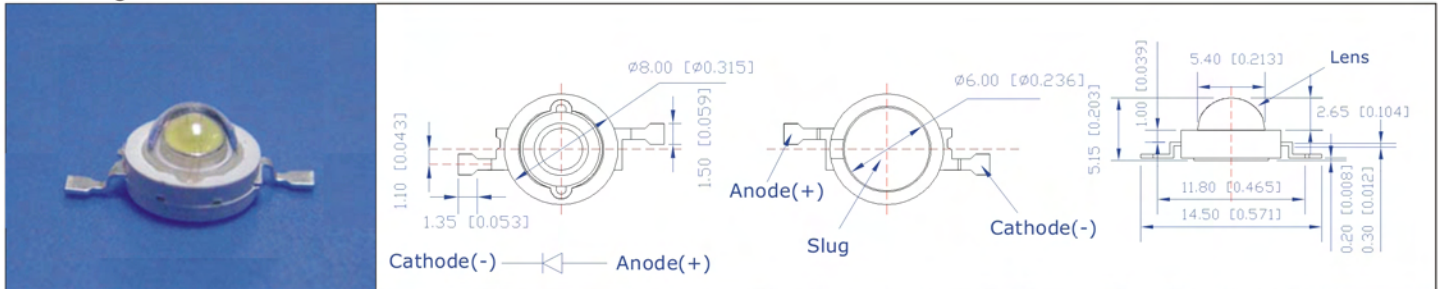


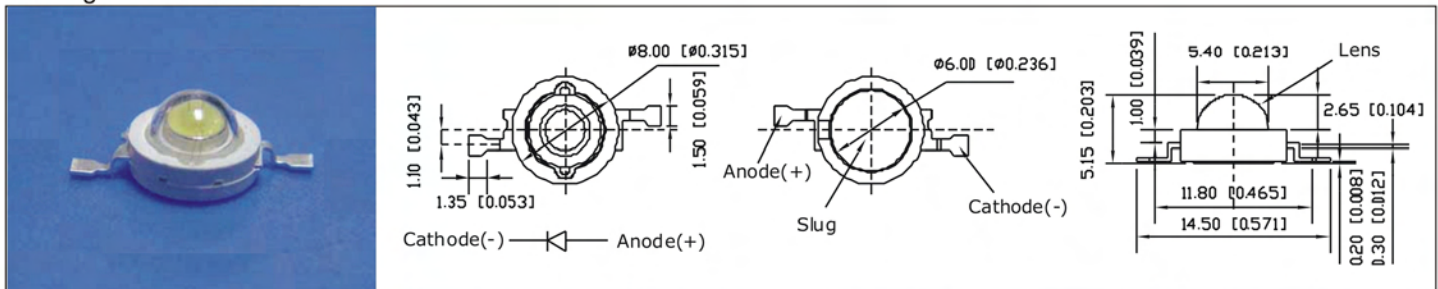
| Part Number<br>LL-XXXX | Chip     |               |           | Vf(V) |     | Luminous Flux(Lm) |     |     | Viewing Angle<br>2θ 1/2 |
|------------------------|----------|---------------|-----------|-------|-----|-------------------|-----|-----|-------------------------|
|                        | Material | Emitted Color | λ D (CCT) | Typ   | Max | IF=mA             | Min | Typ |                         |

0.5 W High Power LEDs



|             |         |            |       |     |     |     |    |    |     |
|-------------|---------|------------|-------|-----|-----|-----|----|----|-----|
| LL-HP30MWCD | InGaN   | White      | 6500K | 3.5 | 4.0 | 150 | 20 | 30 | 135 |
| LL-HP30MW6C | InGaN   | Warm White | 3000K | 3.5 | 4.0 |     | 20 | 25 |     |
| LL-HP30MVB  | AlGaInP | Red        | 620   | 2.2 | 2.8 |     | 12 | 20 |     |
| LL-HP30MPGC | InGaN   | Pure Green | 520   | 3.5 | 4.0 |     | 20 | 30 |     |
| LL-HP30MBA  | InGaN   | Blue       | 465   | 3.5 | 4.0 |     | 4  | 8  |     |
| LL-HP30MUYB | AlGaInP | Yellow     | 590   | 2.2 | 2.8 |     | 12 | 20 |     |

1W High Power LEDs


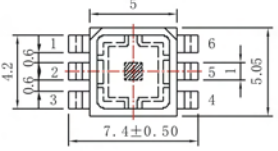
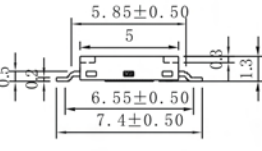
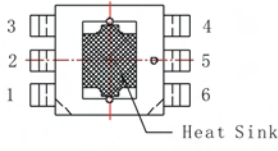
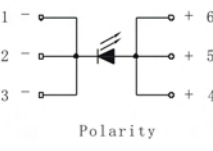


|              |         |            |       |     |     |     |    |     |     |
|--------------|---------|------------|-------|-----|-----|-----|----|-----|-----|
| LL-HP60MWED  | InGaN   | White      | 6500K | 3.5 | 4.0 | 350 | 70 | 80  | 135 |
| LL-HP60MWEB  | InGaN   | White      | 6500K | 3.5 | 4.0 |     | 85 | 100 |     |
| LL-HP60MW6EB | InGaN   | Warm White | 3000K | 3.5 | 4.0 |     | 85 | 100 |     |
| LL-HP60MVC   | AlGaInP | Red        | 620   | 2.2 | 3.0 |     | 30 | 40  |     |
| LL-HP60MPGE  | InGaN   | Pure Green | 520   | 3.5 | 4.0 |     | 60 | 80  |     |
| LL-HP60MBB   | InGaN   | Blue       | 465   | 3.5 | 4.0 |     | 10 | 15  |     |
| LL-HP60MUYC  | AlGaInP | Yellow     | 590   | 2.2 | 3.0 |     | 30 | 40  |     |


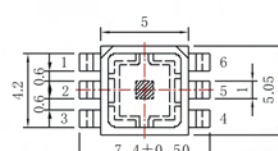
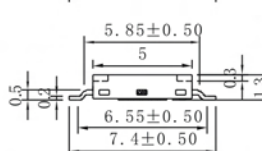
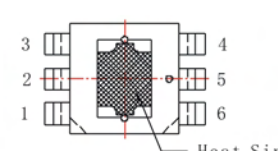
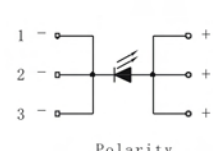
1. All dimensions are in millimeters(inches)  
 2. Tolerance is ±0.25mm(0.01" ) unless otherwise noted

| Part Number<br>LL-XXXX | Chip     |               |               |               | Lens<br>Color | Vf(V) |     | IV(mcd)Φv(lm) |     |     | Viewing<br>Angle<br>2θ 1/2 |
|------------------------|----------|---------------|---------------|---------------|---------------|-------|-----|---------------|-----|-----|----------------------------|
|                        | Material | Emitted Color | λ p(nm)<br>/x | λ d(nm)<br>/y |               | Typ   | Max | IF=mA         | Min | Typ |                            |


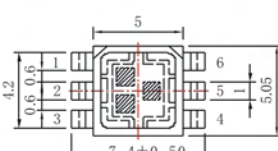
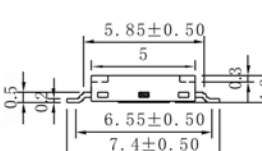
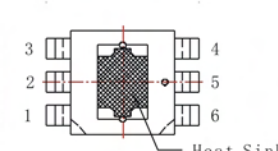
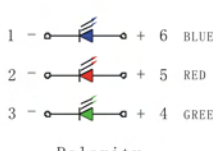
Top View 0.5W High Power LED  
5.00mm×5.00mm×1.30mm SMD LED

|   |   |   |  |   |                    |      |      |     |      |       |     |
|---|---|---|--|---|--------------------|------|------|-----|------|-------|-----|
|  |  |  |  |  |                    |      |      |     |      |       |     |
| HPR5050WC   | InGaN   | White   | X=0.30   | Y=0.31  | Yellow<br>Diffused | 3.40 | 3.80 | 150 | 8000 | 12000 | 120 |
| HPR5050W6C  | InGaN   | Warm White  | X=0.43   | Y=0.40  |                    | 3.40 | 3.80 |     | 25   | 30    |     |

Top View 1W High Power LED  
5.00mm×5.00mm×1.30mm SMD LED

|  |  |  |   |  |                    |      |      |     |       |       |     |
|--|--|--|---|--|--------------------|------|------|-----|-------|-------|-----|
|  |  |  |  |  |                    |      |      |     |       |       |     |
| HPR5050WEB   | InGaN  | White  | X=0.30  | Y=0.31   | Yellow<br>Diffused | 3.40 | 3.80 | 350 | 20000 | 25000 | 120 |
| HPR5050W6EB  | InGaN  | Warm White   | X=0.43  | Y=0.40   |                    | 3.40 | 3.80 |     | 80    | 95    |     |

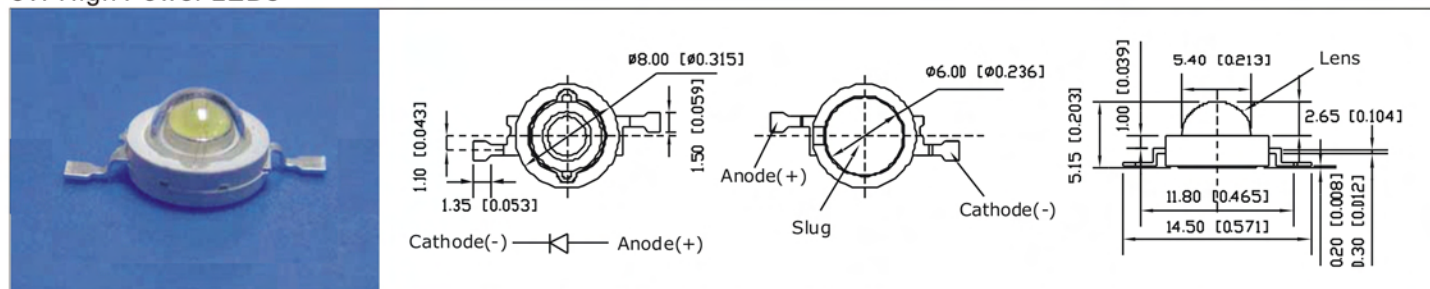
Top View 1W RGB High Power LED  
5.00mm×5.00mm×1.30mm SMD LED

|   |   |   |  |   |                |      |      |     |       |       |     |
|---|---|---|--|---|----------------|------|------|-----|-------|-------|-----|
|  |  |  |  |  |                |      |      |     |       |       |     |
| HPR5050RGBC-001   | AlGaInP   | Hyper Red   | 632  | 624   | Water<br>Clear | 2.20 | 2.60 | 350 | 12000 | 13000 | 130 |
|   | InGaN   | Pure Green  | 520  | 525   |                | 3.50 | 4.00 |     | 11000 | 12000 |     |
|   | InGaN   | Blue  | 468  | 470   |                | 3.50 | 4.00 |     | 3000  | 4000  |     |
|   |   |   |  |   |                |      |      |     | 38    | 50    |     |
|   |   |   |  |   |                |      |      |     | 5     | 8     |     |

1. All dimensions are in millimeters(inches)  
2. Tolerance is ±0.25mm(0.01" ) unless otherwise noted

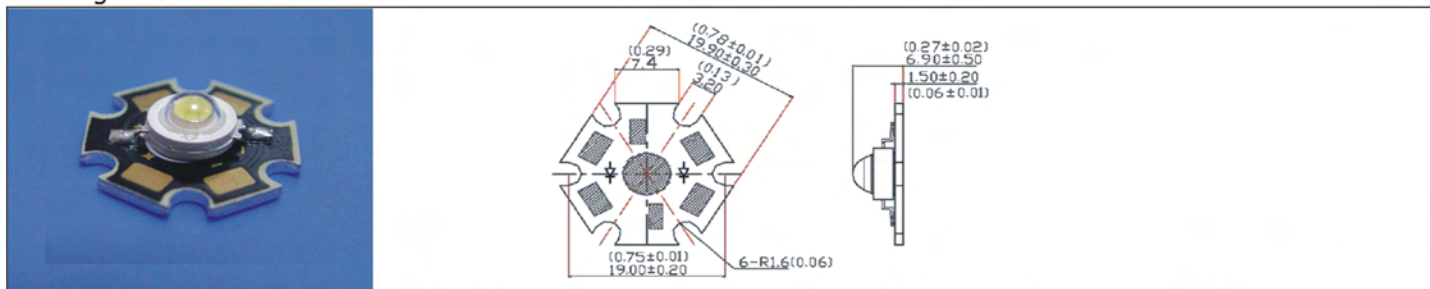
| Part Number<br>LL-XXXX | Chip     |               |           | Vf(V) |     | Luminous Flux(Lm) |     |     | Viewing Angle<br>2θ 1/2 |
|------------------------|----------|---------------|-----------|-------|-----|-------------------|-----|-----|-------------------------|
|                        | Material | Emitted Color | λ D (CCT) | Typ   | Max | IF=mA             | Min | Typ |                         |

### 3W High Power LEDs



|             |       |            |       |     |     |     |     |     |     |
|-------------|-------|------------|-------|-----|-----|-----|-----|-----|-----|
| LL-HP70MWG  | InGaN | White      | 6500K | 3.5 | 4.0 | 700 | 130 | 150 | 135 |
| LL-HP70MW6F | InGaN | Warm White | 3000K | 3.5 | 4.0 |     | 130 | 150 |     |

### 1W High Power LEDs



|              |         |            |       |     |     |     |    |     |     |
|--------------|---------|------------|-------|-----|-----|-----|----|-----|-----|
| LL-HP60NWED  | InGaN   | White      | 6500K | 3.5 | 4.0 | 350 | 70 | 80  | 135 |
| LL-HP60WEB   | InGaN   | White      | 6500K | 3.5 | 4.0 |     | 85 | 100 |     |
| LL-HP60NW6EB | InGaN   | Warm White | 3000K | 3.5 | 4.0 |     | 85 | 100 |     |
| LL-HP60NVC   | AlGaInP | Red        | 620   | 2.2 | 3.0 |     | 30 | 40  |     |
| LL-HP60NPGE  | InGaN   | Pure Green | 520   | 3.5 | 4.0 |     | 60 | 80  |     |
| LL-HP60NBB   | InGaN   | Blue       | 465   | 3.5 | 4.0 |     | 10 | 15  |     |
| LL-HP60NUYC  | AlGaInP | Yellow     | 590   | 2.2 | 3.0 |     | 30 | 40  |     |

1. All dimensions are in millimeters(inches)  
2. Tolerance is ±0.25mm(0.01" ) unless otherwise noted