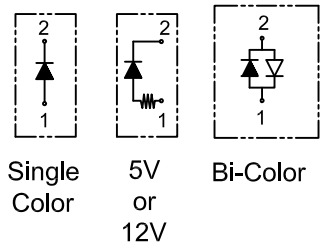
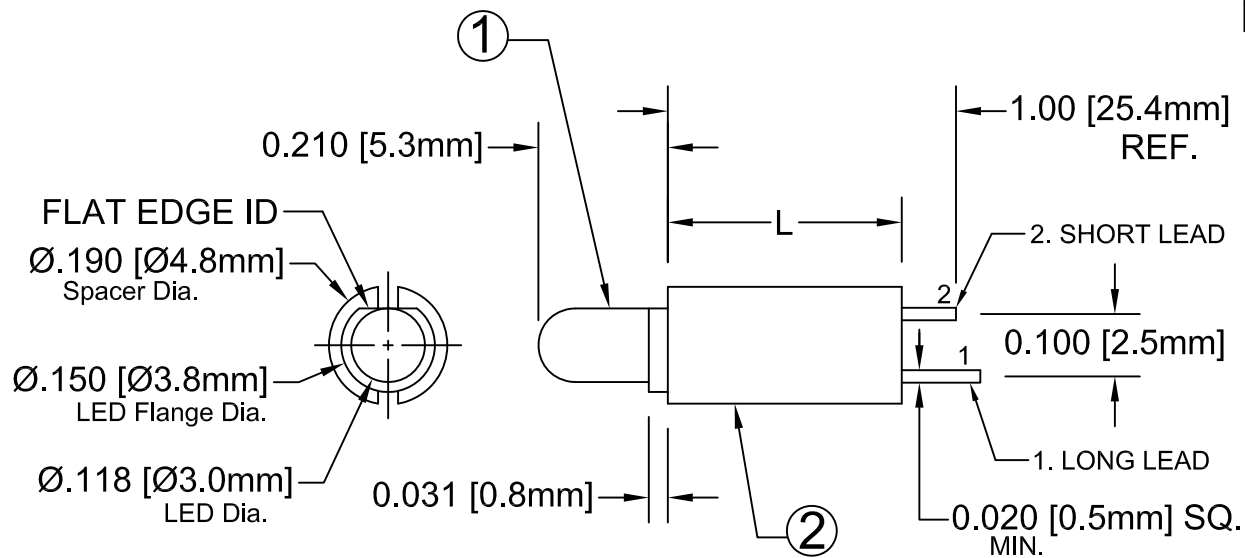


| ITEM | Q'TY | PART NUMBER | PART DESCRIPTION                        |
|------|------|-------------|-----------------------------------------|
| 1    | 1    | 3XX-F       | T-1 (3mm) Flanged LED, See Pages 2 to 4 |
| 2    | 1    | ELM 2-XXX   | Extruded, Self-Retaining LED Spacer     |

| REV. | DESCRIPTION                      | DATE     | APPROVED |
|------|----------------------------------|----------|----------|
| A    | Engineering Update w/o Changes   | 03/05/04 | M. C.    |
| B    | Update LED, EMN-ELMXXX3XX        | 08/22/06 | M. C.    |
| C    | Removed Tolerance Note.          | 09/03/08 | M. C.    |
| D    | LED Specs and Dimensions Update. | 07/22/10 | T. Y.    |
| E    | Added Tape & Reel Options.       | 06/06/11 | T. Y.    |
| F    | Tape & Reel Design Update.       | 11/21/11 | T. Y.    |
| G    | LED Offering List Update         | 07/27/12 | T. Y.    |
| H    | Corrected LED Typo               | 08/09/13 | T. Y.    |
| J    | Corrected P/N Typo in BOM        | 09/19/13 | T. Y.    |



| BI-COLOR POLARITY |             |             |
|-------------------|-------------|-------------|
| LED P/N           | (1) Cathode | (2) Cathode |
| 3BC-F             | Green       | Red         |
| 3BC-Y/G-F         | Green       | Yellow      |
| 3BC-R/Y-F         | Yellow      | Red         |
| 3BC-A/G-F         | Green       | Amber       |

## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

|                                             |                      |
|---------------------------------------------|----------------------|
| REVERSE VOLTAGE                             | 5V                   |
| REVERSE CURRENT                             | 100uA                |
| OPERATING TEMPERATURE RANGE                 | -25° C - 85° C       |
| STORAGE TEMPERATURE                         | -30° C - 100° C      |
| LEAD SOLDERING TEMPERATURE(1/16" FROM BODY) | 260° C FOR 5 SECONDS |

|                                                      |                          |                                                                                                                                                                                              |                       |
|------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED ) |                          | <br><b>BIVAR</b> <sup>®</sup><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                                          |                          |                                                                                                                                                                                              |                       |
| DESIGNED:<br><b>Minh Doan</b>                        | DATE:<br><b>07/27/12</b> |  <b>TITLE:</b> EXTRUDED VERTICAL T-1 (3mm)<br>LED STANDARD PROFILE SPACER ASSY                          |                       |
| CHECKED:<br><b>T. Yin</b>                            | DATE:<br><b>07/27/12</b> | <b>PART NO:</b> ELM2XXX3XX                                                                                                                                                                   | <b>REVISION:</b> J    |
|                                                      |                          | <b>CAGE CODE :</b> 32559                                                                                                                                                                     | <b>SHEET # 1 OF 5</b> |
| CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.      |                          |                                                                                                                                                                                              |                       |

|      |              |      |          |
|------|--------------|------|----------|
| REV. | DESCRIPTION  | DATE | APPROVED |
|      | SEE SHEET#1. |      |          |
|      |              |      |          |

| LED Assy. No.  | Chip      |                  |               | Lens Appearance | Electro-Optical Data @ 20mA |        |     |          | Viewing Angle<br>2 θ ½<br>(Deg) | LED P/N   |
|----------------|-----------|------------------|---------------|-----------------|-----------------------------|--------|-----|----------|---------------------------------|-----------|
|                | Material  | Peak Wave Length | Emitted Color |                 | If (mA)                     | Vf (V) |     | Iv (mcd) |                                 |           |
|                |           |                  |               |                 | MAX                         | TYP    | MAX | TYP      |                                 |           |
| ELM2XXX3BWC    | GaN/SiC   | 430              | BLUE          | WATER CLEAR     | 25                          | 4      | 4.5 | 15       | 20                              | 3BWC-F    |
| ELM2XXX3BWD    | GaN/SiC   | 430              | BLUE          | DIFFUSED        | 25                          | 4      | 4.5 | 10       | 35                              | 3BWD-F    |
| ELM2XXX3BWT    | GaN/SiC   | 430              | BLUE          | TINTED          | 25                          | 4      | 4.5 | 15       | 20                              | 3BWT-F    |
| ELM2XXX3GC     | GaP/GaP   | 568              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.8 | 40       | 20                              | 3GC-F     |
| ELM2XXX3GD     | GaP/GaP   | 568              | GREEN         | DIFFUSED        | 30                          | 2.1    | 2.8 | 25       | 35                              | 3GD-F     |
| ELM2XXX3GT     | GaP/GaP   | 568              | GREEN         | TINTED          | 30                          | 2.1    | 2.8 | 40       | 20                              | 3GT-F     |
| ELM2XXX3PGC    | GaP/GaP   | 555              | PURE GREEN    | WATER CLEAR     | 30                          | 2.2    | 2.8 | 10       | 20                              | 3PGC-F    |
| ELM2XXX3PGD    | GaP/GaP   | 555              | PURE GREEN    | DIFFUSED        | 30                          | 2.2    | 2.8 | 5        | 35                              | 3PGD-F    |
| ELM2XXX3PGT    | GaP/GaP   | 555              | PURE GREEN    | TINTED          | 30                          | 2.2    | 2.8 | 10       | 20                              | 3PGT-F    |
| ELM2XXX3YC     | GaAsP/GaP | 590              | YELLOW        | WATER CLEAR     | 30                          | 2      | 2.8 | 40       | 20                              | 3YC-F     |
| ELM2XXX3YD     | GaAsP/GaP | 590              | YELLOW        | DIFFUSED        | 30                          | 2      | 2.8 | 20       | 35                              | 3YD-F     |
| ELM2XXX3YT     | GaAsP/GaP | 590              | YELLOW        | TINTED          | 30                          | 2      | 2.8 | 40       | 20                              | 3YT-F     |
| ELM2XXX3AC     | GaAsP/GaP | 605              | AMBER         | WATER CLEAR     | 30                          | 2      | 2.8 | 40       | 20                              | 3AC-F     |
| ELM2XXX3AD     | GaAsP/GaP | 605              | AMBER         | DIFFUSED        | 30                          | 2      | 2.8 | 25       | 35                              | 3AD-F     |
| ELM2XXX3AT     | GaAsP/GaP | 605              | AMBER         | TINTED          | 30                          | 2      | 2.8 | 40       | 20                              | 3AT-F     |
| ELM2XXX3HC     | GaAsP/GaP | 625              | HE RED        | WATER CLEAR     | 30                          | 2      | 2.8 | 50       | 20                              | 3HC-F     |
| ELM2XXX3HD     | GaAsP/GaP | 625              | HE RED        | DIFFUSED        | 30                          | 2      | 2.8 | 30       | 35                              | 3HD-F     |
| ELM2XXX3HT     | GaAsP/GaP | 625              | HE RED        | TINTED          | 30                          | 2      | 2.8 | 50       | 20                              | 3HT-F     |
| ELM2XXX3RC     | GaP/GaP   | 700              | RED           | WATER CLEAR     | 20                          | 2.1    | 2.8 | 2.5      | 35                              | 3RC-F     |
| ELM2XXX3RD     | GaP/GaP   | 700              | RED           | DIFFUSED        | 20                          | 2.1    | 2.8 | 2        | 20                              | 3RD-F     |
| ELM2XXX3RT     | GaP/GaP   | 700              | RED           | TINTED          | 20                          | 2.1    | 2.8 | 2.5      | 20                              | 3RT-F     |
| ELM2XXX3BC-A/G | GaAsP/GaP | 605              | AMBER         | DIFFUSED        | 30                          | 2.0    | 2.8 | 6        | 45                              | 3BC-A/G-F |
|                | GaP/GaP   | 568              | GREEN         |                 | 30                          | 2.1    | 2.8 | 6        |                                 |           |
| ELM2XXX3BC     | GaAsP/GaP | 625              | RED           | DIFFUSED        | 30                          | 2.0    | 2.8 | 6        | 45                              | 3BC-F     |
|                | GaP/GaP   | 568              | GREEN         |                 | 30                          | 2.1    | 2.8 | 6        |                                 |           |
| ELM2XXX3BC-R/Y | GaAsP/GaP | 625              | RED           | DIFFUSED        | 30                          | 2.0    | 2.8 | 6        | 45                              | 3BC-R/Y-F |
|                | GaAsP/GaP | 590              | YELLOW        |                 | 30                          | 2.0    | 2.8 | 4        |                                 |           |
| ELM2XXX3BC-Y/G | GaAsP/GaP | 590              | YELLOW        | DIFFUSED        | 30                          | 2.0    | 2.8 | 4        | 45                              | 3BC-Y/G-F |
|                | GaP/GaP   | 568              | GREEN         |                 | 30                          | 2.1    | 2.8 | 6        |                                 |           |

|                                                                                |  |                          |  |                                                                                                                |  |
|--------------------------------------------------------------------------------|--|--------------------------|--|----------------------------------------------------------------------------------------------------------------|--|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )<br><u>±10% ALL VALUES</u> |  | ANGULAR<br>X° ± 5°       |  | <div>BIVAR®</div> <div>4 THOMAS, IRVINE, CA. 92618</div> <div>TEL: (949) 951-8808    FAX: (949) 951-3974</div> |  |
| DESIGNED:<br><b>Minh Doan</b>                                                  |  | DATE:<br><b>07/27/12</b> |  | TITLE: EXTRUDED VERTICAL T-1 (3mm)<br>LED STANDARD PROFILE SPACER ASSY                                         |  |
| CHECKED:<br><b>T. Yln</b>                                                      |  | DATE:<br><b>07/27/12</b> |  | PART NO: ELM2XXX3XX                                                                                            |  |
|                                                                                |  |                          |  | REVISION:<br><b>J</b>                                                                                          |  |
|                                                                                |  |                          |  | CAGE CODE : 32559                                                                                              |  |
|                                                                                |  |                          |  | SHEET # 2 OF 5                                                                                                 |  |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.                                |  |                          |  |                                                                                                                |  |

|      |              |      |          |
|------|--------------|------|----------|
| REV. | DESCRIPTION  | DATE | APPROVED |
|      | SEE SHEET#1. |      |          |
|      |              |      |          |

| LED Assy. No. | Chip          |                  |               | Lens Appearance | Electro-Optical Data @ 20mA |        |     |          | Viewing Angle<br>2 θ ½<br>(Deg) | LED P/N      |
|---------------|---------------|------------------|---------------|-----------------|-----------------------------|--------|-----|----------|---------------------------------|--------------|
|               | Material      | Peak Wave Length | Emitted Color |                 | If (mA)                     | Vf (V) |     | Iv (mcd) |                                 |              |
|               |               |                  |               |                 |                             | MAX    | TYP |          |                                 |              |
| ELM2XXX3UBWC  | GaN/SiC       | 470              | BLUE          | WATER CLEAR     | 30                          | 4      | 4.5 | 400      | 30                              | 3UBWC-0.6K-F |
| ELM2XXX3SGC   | GaP/GaP       | 568              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.8 | 50       | 20                              | 3SGC-F       |
| ELM2XXX3SGD   | GaP/GaP       | 568              | GREEN         | DIFFUSED        | 30                          | 2.1    | 2.8 | 30       | 35                              | 3SGD-F       |
| ELM2XXX3SGT   | GaP/GaP       | 568              | GREEN         | TINTED          | 30                          | 2.1    | 2.8 | 50       | 20                              | 3SGT-F       |
| ELM2XXX3SYC   | GaAsP/GaP     | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.8 | 50       | 20                              | 3SYC-F       |
| ELM2XXX3SYD   | GaAsP/GaP     | 590              | YELLOW        | DIFFUSED        | 30                          | 2.0    | 2.8 | 30       | 35                              | 3SYD-F       |
| ELM2XXX3SYT   | GaAsP/GaP     | 590              | YELLOW        | TINTED          | 30                          | 2.0    | 2.8 | 50       | 20                              | 3SYT-F       |
| ELM2XXX3SAC   | AlGaInP       | 605              | AMBER         | WATER CLEAR     | 30                          | 1.8    | 2.4 | 300      | 20                              | 3SAC-F       |
| ELM2XXX3SAD   | AlGaInP       | 605              | AMBER         | DIFFUSED        | 30                          | 1.8    | 2.4 | 100      | 35                              | 3SAD-F       |
| ELM2XXX3SAT   | AlGaInP       | 605              | AMBER         | TINTED          | 30                          | 1.8    | 2.4 | 300      | 20                              | 3SAT-F       |
| ELM2XXX3SRC   | GaAlAs/GaAs   | 645              | SUPER RED     | WATER CLEAR     | 30                          | 1.7    | 2.4 | 60       | 20                              | 3SRC-F       |
| ELM2XXX3SRD   | GaAlAs/GaAs   | 645              | SUPER RED     | DIFFUSED        | 30                          | 1.7    | 2.4 | 40       | 35                              | 3SRD-F       |
| ELM2XXX3SRT   | GaAlAs/GaAs   | 645              | SUPER RED     | TINTED          | 30                          | 1.7    | 2.4 | 60       | 20                              | 3SRT-F       |
| ELM2XXX3UGC   | AlGaInP       | 570              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.4 | 200      | 20                              | 3UGC-F       |
| ELM2XXX3SUGC  | AlGaInP       | 570              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.4 | 300      | 35                              | 3SUGC-F      |
| ELM2XXX3UYC   | AlGaInP       | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.4 | 300      | 20                              | 3UYC-F       |
| ELM2XXX3SUYC  | AlGaInP       | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.4 | 400      | 20                              | 3SUYC-F      |
| ELM2XXX3UUYC  | AlGaInP       | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.4 | 600      | 35                              | 3UUYC-F      |
| ELM2XXX3UOC   | AlGaInP       | 625              | ORANGE        | WATER CLEAR     | 30                          | 1.8    | 2.4 | 300      | 20                              | 3UOC-F       |
| ELM2XXX3SUOC  | AlGaInP       | 625              | ORANGE        | WATER CLEAR     | 30                          | 1.8    | 2.4 | 400      | 20                              | 3SUOC-F      |
| ELM2XXX3URC   | GaAlAs/GaAs   | 645              | RED           | WATER CLEAR     | 30                          | 1.7    | 2.4 | 200      | 35                              | 3URC-F       |
| ELM2XXX3SURC  | AlGaInP       | 640              | RED           | WATER CLEAR     | 30                          | 1.8    | 2.4 | 200      | 20                              | 3SURC-F      |
| ELM2XXX3UWC   | InGaN/Sappire | 6500K            | WHITE         | WATER CLEAR     | 30                          | 3.4    | 3.8 | 1000     | 35                              | 3UWC1.035C-F |

|                                                                                |  |                                                                                       |  |                                                                                                                                                                 |  |
|--------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )<br><u>±10% ALL VALUES</u> |  | ANGULAR<br>X° ± 5°                                                                    |  | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |  |
|                                                                                |  |  |  | TITLE: EXTRUDED VERTICAL T-1 (3mm)<br>LED STANDARD PROFILE SPACER ASSY                                                                                          |  |
| DESIGNED:<br>Minh Doan                                                         |  | DATE:<br>07/27/12                                                                     |  | PART NO: ELM2XXX3XX                                                                                                                                             |  |
| CHECKED:<br>T. Yin                                                             |  | DATE:<br>07/27/12                                                                     |  | REVISION:<br>J                                                                                                                                                  |  |
|                                                                                |  |                                                                                       |  | CAGE CODE : 32559 SHEET # 3 OF 5                                                                                                                                |  |
|                                                                                |  |                                                                                       |  | CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.                                                                                                                 |  |

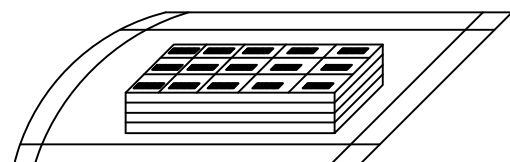
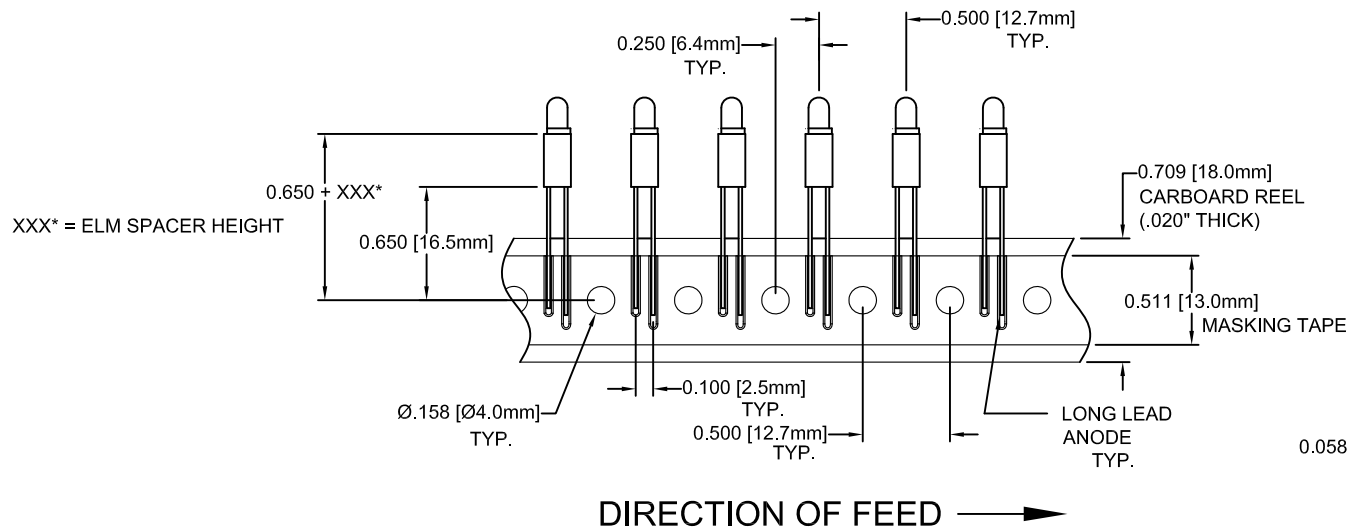
| REV. | DESCRIPTION  | DATE | APPROVED |
|------|--------------|------|----------|
|      | SEE SHEET#1. |      |          |
|      |              |      |          |

| LED Assy. No. | Chip        |                            |               | Lens Appearance | Absolute Max. Ratings |            |             | Electro-Optical Data @ 2mA |     |             | Viewing Angle<br>2 θ ½<br>(Deg) | LED P/N |
|---------------|-------------|----------------------------|---------------|-----------------|-----------------------|------------|-------------|----------------------------|-----|-------------|---------------------------------|---------|
|               | Material    | Peak Wave Length<br>λp(nm) | Emitted Color |                 | Pd<br>(mW)            | If<br>(mA) | Peak If(mA) | Vf<br>(V)                  |     | Iv<br>(mcd) |                                 |         |
|               |             |                            |               |                 |                       |            |             | TYP                        | MAX | TYP         |                                 |         |
| ELM2XXX3BWDL  | GaN/siC     | 430                        | BLUE          | DIFFUSED        | 20                    | 7          | -           | 3.8                        | 4.2 | 2.5         | 35                              | 3BWDL-F |
| ELM2XXX3GDL   | GaP/GaP     | 568                        | GREEN         | DIFFUSED        | 10                    | 7          | -           | 2.1                        | 2.6 | 4.0         | 35                              | 3GDL-F  |
| ELM2XXX3PGDL  | GaP/GaP     | 555                        | PURE GREEN    | DIFFUSED        | 10                    | 7          | -           | 2.1                        | 2.6 | 0.2         | 35                              | 3PGDL-F |
| ELM2XXX3YDL   | GaAsP/GaP   | 590                        | YELLOW        | DIFFUSED        | 10                    | 7          | -           | 2.0                        | 2.6 | 2.0         | 35                              | 3YDL-F  |
| ELM2XXX3ADL   | GaAsP/GaP   | 605                        | AMBER         | DIFFUSED        | 10                    | 7          | -           | 2.0                        | 2.6 | 4.0         | 35                              | 3ADL-F  |
| ELM2XXX3HDL   | GaAsP/GaP   | 625                        | HE RED        | DIFFUSED        | 10                    | 7          | -           | 2.0                        | 2.6 | 2.5         | 35                              | 3HDL-F  |
| ELM2XXX3RDL   | GaP/GaP     | 700                        | RED           | DIFFUSED        | 10                    | 7          | -           | 2.1                        | 2.6 | 0.5         | 35                              | 3RDL-F  |
| ELM2XXX3SRDL  | GaAlAs/GaAs | 645                        | RED           | DIFFUSED        | 10                    | 7          | -           | 2.0                        | -   | 8.0         | 35                              | 3SRDL-F |

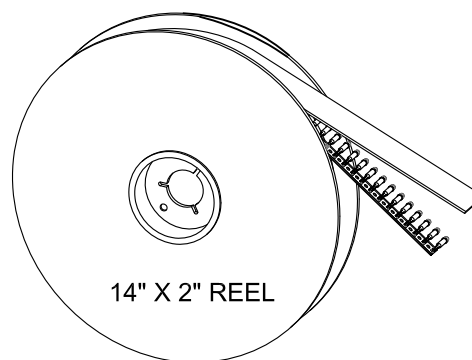
| Assembly P/N  | Peak Wave Length<br>λp(nm) | Emitted Color | Lens Appearance | Electro-Optical Data |           |     |             | Viewing Angle<br>2 θ½<br>(Deg) | LED P/N  |
|---------------|----------------------------|---------------|-----------------|----------------------|-----------|-----|-------------|--------------------------------|----------|
|               |                            |               |                 | If<br>(mA)           | Vf<br>(V) |     | Iv<br>(mcd) |                                |          |
|               |                            |               |                 | MAX                  | TYP       | MAX | TYP         |                                |          |
| 5 Volt        |                            |               |                 | Data @ 5V            |           |     |             |                                |          |
| ELM2XXX3BWD5V | BLUE                       | 430           | DIFFUSED        | -                    | -         | 5   | 10          | 35                             | 3BWD5V-F |
| ELM2XXX3GC5V  | GREEN                      | 568           | WATER CLEAR     | -                    | -         | 5   | 40          | 20                             | 3GC5V-F  |
| ELM2XXX3GD5V  | GREEN                      | 568           | DIFFUSED        | -                    | -         | 5   | 25          | 35                             | 3GD5V-F  |
| ELM2XXX3GT5V  | GREEN                      | 568           | TINTED          | -                    | -         | 5   | 40          | 20                             | 3GT5V-F  |
| ELM2XXX3AD5V  | AMBER                      | 605           | DIFFUSED        | -                    | -         | 5   | 25          | 35                             | 3AD5V-F  |
| ELM2XXX3HD5V  | HE RED                     | 625           | DIFFUSED        | -                    | -         | 5   | 30          | 35                             | 3HD5V-F  |
| ELM2XXX3RD5V  | RED                        | 700           | DIFFUSED        | -                    | -         | 5   | 2           | 35                             | 3RD5V-F  |
| ELM2XXX3YD5V  | YELLOW                     | 590           | DIFFUSED        | -                    | -         | 5   | 20          | 35                             | 3YD5V-F  |
| 12 Volt       |                            |               |                 | Data @ 12V           |           |     |             |                                |          |
| ELM2XXX3GC12V | GREEN                      | 568           | WATER CLEAR     | -                    | -         | 12  | 40          | 20                             | 3GC12V-F |
| ELM2XXX3GD12V | GREEN                      | 568           | DIFFUSED        | -                    | -         | 12  | 25          | 35                             | 3GD12V-F |
| ELM2XXX3HC12V | HE RED                     | 625           | WATER CLEAR     | -                    | -         | 12  | 50          | 20                             | 3HC12V-F |
| ELM2XXX3HD12V | HE RED                     | 625           | DIFFUSED        | -                    | -         | 12  | 30          | 35                             | 3HD12V-F |
| ELM2XXX3RC12V | RED                        | 700           | WATER CLEAR     | -                    | -         | 12  | 6           | 20                             | 3RC12V-F |
| ELM2XXX3RD12V | RED                        | 700           | DIFFUSED        | -                    | -         | 12  | 2           | 35                             | 3RD12V-F |
| ELM2XXX3YC12V | YELLOW                     | 590           | WATER CLEAR     | -                    | -         | 12  | 40          | 20                             | 3YC12V-F |
| ELM2XXX3YD12V | YELLOW                     | 590           | DIFFUSED        | -                    | -         | 12  | 25          | 35                             | 3YD12V-F |

|                                                                                |  |                                                                                       |  |                                                                                                                                                                 |  |
|--------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )<br><u>±10% ALL VALUES</u> |  | ANGULAR<br>X° ± 5°                                                                    |  | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |  |
|                                                                                |  |  |  | TITLE: EXTRUDED VERTICAL T-1 (3mm)<br>LED STANDARD PROFILE SPACER ASSY                                                                                          |  |
| DESIGNED:<br>Minh Doan                                                         |  | DATE:<br>07/27/12                                                                     |  | PART NO: ELM2XXX3XX                                                                                                                                             |  |
| CHECKED:<br>T. Yin                                                             |  | DATE:<br>07/27/12                                                                     |  | REVISION:<br>J                                                                                                                                                  |  |
|                                                                                |  |                                                                                       |  | CAGE CODE : 32559                                                                                                                                               |  |
|                                                                                |  |                                                                                       |  | SHEET # 4 OF 5                                                                                                                                                  |  |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.                                |  |                                                                                       |  |                                                                                                                                                                 |  |

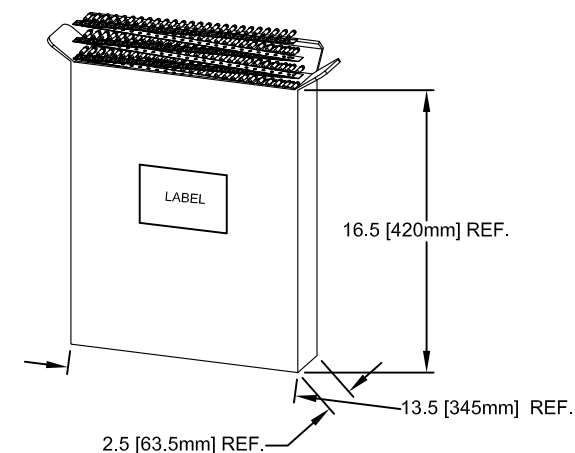
| REV. | DESCRIPTION  | DATE | APPROVED |
|------|--------------|------|----------|
|      | SEE SHEET #1 |      |          |
|      |              |      |          |
|      |              |      |          |
|      |              |      |          |
|      |              |      |          |
|      |              |      |          |



STANDARD PACKAGING TRAY



TAPE & REEL  
1,000 pcs / reel



AMMO PACK  
2,000 pcs / box

NOTE:

1. STANDARD PART NUMBERS ARE PACKAGED IN LOOSE PIECES USING PACKAGING TRAYS
2. ADD "T" SUFFIX TO PART NUMBER FOR TAPE AND REEL PACKAGING OPTION (1,000 PCS/REEL)
3. ADD "A" SUFFIX TO PART NUMBER FOR AMMO PACK OPTION (2,000 PCS/BOX)
4. TAPE AND REEL PACKAGING COMPLY TO EIA-468-C

|                                                      |                          |                                                                                                     |  |
|------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------|--|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED ) |                          | <b>BIVAR</b> <sup>®</sup><br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |  |
| <u>DECIMALS</u>                                      | <u>ANGULAR</u>           |                                                                                                     |  |
| .X ± .1                                              | X° ± 1°                  | <b>TITLE:</b> EXTRUDED VERTICAL T1 (3mm)<br>LED STANDARD PROFILE SPACER ASSY                        |  |
| .XX ± .02                                            |                          |                                                                                                     |  |
| .XXX ± .010                                          |                          | <b>PART NO:</b> ELM2XXX3XX<br><b>REVISION:</b> J                                                    |  |
|                                                      |                          |                                                                                                     |  |
| DESIGNED:<br><b>David Green</b>                      | DATE:<br><b>03/05/04</b> | <b>CAGE CODE :</b> 32559 <b>SHEET #</b> 5 <b>OF</b> 5                                               |  |
| CHECKED:<br><b>M. Chen</b>                           | DATE:<br><b>03/05/04</b> |                                                                                                     |  |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.      |                          |                                                                                                     |  |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А