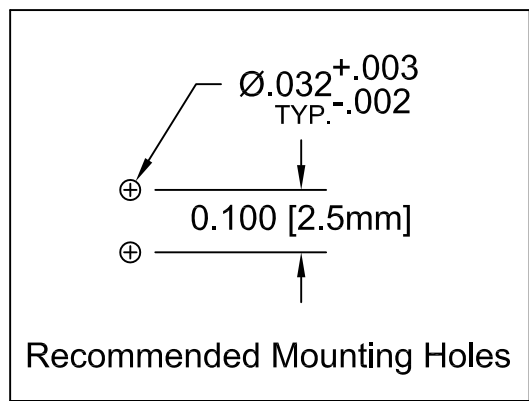


| ITEM | Q'TY | PART NUMBER | PART DESCRIPTION                        |
|------|------|-------------|---|
| 1    | 1    | 3XX-F       | T-1 (3mm) Flanged LED, See Pages 2 to 4 |
| 2    | 1    | ELM 2-XXX   | Extruded, Self-Retaining LED Spacer     |

| 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 (UNLESS OTHERWISE SPECIFIED) |                       | <br><b>BIVAR</b> ®<br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |                       |
| DECIMALS  | ANGULAR               |  |                       |
| .X ±.1  | X° ± 1°               |  |                       |
| .XX ±.02  |                       | <br><b>TITLE:</b> EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE SPACER ASSY               |                       |
| .XXX ±.010                                      |                       |  |                       |
| DESIGNED: <b>Minh Doan</b>                      | DATE: <b>07/27/12</b> | <b>PART NO:</b> ELM2XXX3XX   | REVISION: <b>J</b>    |
| CHECKED: <b>T. Yin</b>                          | DATE: <b>07/27/12</b> | <b>CAGE CODE :</b> 32559   | <b>SHEET # 1 OF 5</b> |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING. |                       |  |                       |

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

| LED Assy. No.  | Chip      |                  |               | Lens Appearance | Electro-Optical Data @ 20mA |        |     |          | Viewing Angle 2 θ ½ (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>±10% ALL VALUES |  | <br><b>BIVAR</b> <sup>®</sup><br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |  |
| ANGULAR<br>X° ± 5°  |  |  |  |
| DESIGNED:<br><b>Minh Doan</b>   |  | DATE:<br><b>07/27/12</b>   | <br><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><br>J  |
|   |  | <b>CAGE CODE :</b> 32559   | <b>SHEET #</b> 2 OF 5  |
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|------|--------------|------|----------|
| REV. | DESCRIPTION  | DATE | APPROVED |
|      | SEE SHEET#1. |      |          |

| LED Assy. No. | Chip           |                  |               | Lens Appearance | Electro-Optical Data @ 20mA |        |     |          | Viewing Angle 2θ ½ (Deg) | LED P/N      |
|---------------|----------------|------------------|---------------|-----------------|-----------------------------|--------|-----|----------|--------------------------|--------------|
|               | Material       | Peak Wave Length | Emitted Color |                 | If (mA)                     | Vf (V) |     | Iv (mcd) |                          |              |
|               |                |                  |               |                 | MAX                         | TYP    | 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       |
| ELM2XXX3UGC   | AlGaInP        | 570              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.4 | 300      | 35                       | 3UGC-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/Sapphire | 6500K            | WHITE         | WATER CLEAR     | 30                          | 3.4    | 3.8 | 1000     | 35                       | 3UWC1.035C-F |

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| ANGULAR<br>X° ± 5°  |  |   |  |
| DESIGNED:<br><b>Minh Doan</b>   |  | DATE:<br><b>07/27/12</b>  | <br><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  | REVISION:<br><b>J</b>  |
|   |  | <b>CAGE CODE :</b> 32559  | <b>SHEET #</b> 3 OF 5  |
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|------|--------------|------|----------|
| REV. | DESCRIPTION  | DATE | APPROVED |
|      | SEE SHEET#1. |      |          |

| LED Assy. No. | Chip        |                         |               | Lens Appearance | Absolute Max. Ratings |         |             | Electro-Optical Data @ 2mA |     |          | Viewing Angle 2θ ½ (Deg) | LED P/N |
|---------------|-------------|-------------------------|---------------|-----------------|-----------------------|---------|-------------|----------------------------|-----|----------|--------------------------|---------|
|               | Material    | Peak Wave Length λp(nm) | Emitted Color |                 | Pd (mW)               | If (mA) | Peak If(mA) | Vf (V)                     |     | Iv (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 λp(nm) | Emitted Color | Lens Appearance | Electro-Optical Data |        |     |          | Viewing Angle 2θ ½ (Deg) | LED P/N  |
|----------------|-------------------------|---------------|-----------------|----------------------|--------|-----|----------|--------------------------|----------|
|                |                         |               |                 | If (mA)              | Vf (V) |     | Iv (mcd) |                          |          |
|                |                         |               |                 |                      | MAX    | TYP | MAX      |                          |          |
| <b>5 Volt</b>  |                         |               |                 | <b>Data @ 5V</b>     |        |     |          |                          |          |
| 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  |
| <b>12 Volt</b> |                         |               |                 | <b>Data @ 12V</b>    |        |     |          |                          |          |
| 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 |

|   |  |  |   |
|---|--|--|---|
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| ANGULAR<br>X° ± 5°  |  |  |   |
| 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<br><br><b>PART NO:</b> ELM2XXX3XX<br><b>REVISION:</b> J |
| CHECKED:<br><b>T. Yin</b>   |  | DATE:<br><b>07/27/12</b>   |   |
|   |  | <b>CAGE CODE:</b> 32559  | <b>SHEET #</b> 4 OF 5   |
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|      | SEE SHEET #1 |      |          |
|      |              |      |          |
|      |              |      |          |
|      |              |      |          |
|      |              |      |          |



DIRECTION OF FEED →



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 |  |   |                    |
| DECIMALS   | ANGULAR |   |  |   |                    |
| .X ± .1  | X° ± 1° | <b>TITLE:</b> EXTRUDED VERTICAL T1 (3mm)<br>LED STANDARD PROFILE SPACER ASSY                        |  |   |                    |
| .XX ± .02  |         |   |  |   |                    |
| .XXX ± .010  |         | <b>DESIGNED:</b> David Green<br><b>CHECKED:</b> M. Chen   | <b>DATE:</b> 03/05/04<br><b>DATE:</b> 03/05/04 | <b>PART NO:</b> ELM2XXX3XX<br><b>CAGE CODE :</b> 32559<br><b>SHEET #</b> 5 OF 5 | <b>REVISION:</b> J |
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<http://moschip.ru/get-element>

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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