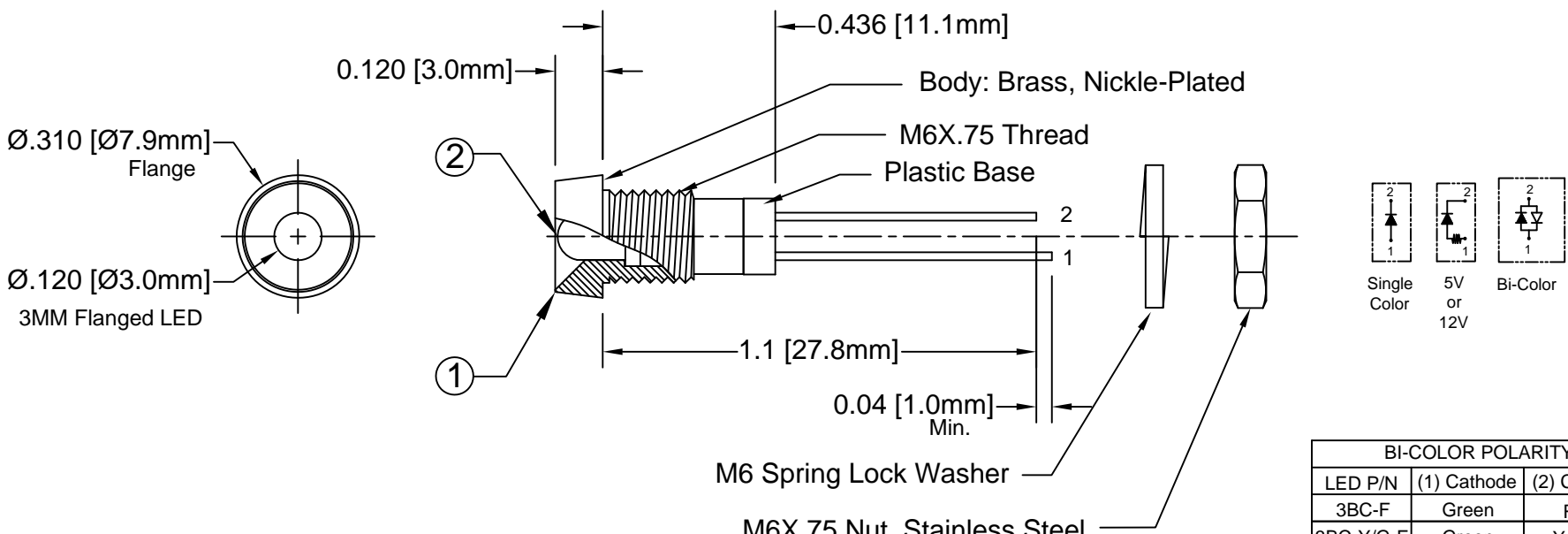


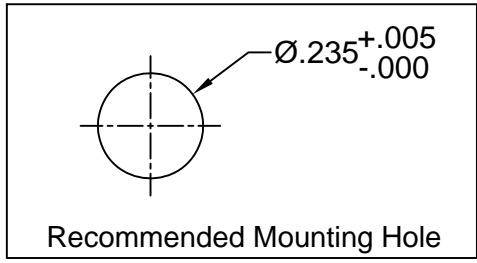
| ITEM | Q'TY | PART NUMBER | PART DESCRIPTION                           |
|------|------|-------------|--|
| 1    | 1    | MPR3        | Chrome Panel Mount Holder, 3mm             |
| 2    | 1    | 3XX-F       | T-1 (3mm) Flanged LED, See Following Pages |

| REV. | DESCRIPTION                         | DATE     | APPROVED |
|------|-------------------------------------|----------|----------|
| A    | Engineering Release.                | 10/31/03 | M. C.    |
| B    | Engineering Update w/o Changes.     | 04/07/05 | M. C.    |
| C    | Dimension Update                    | 07/10/06 | M. C.    |
| D    | Updated Specs                       | 04/03/09 | T. Y.    |
| E    | Updated Specs                       | 04/26/12 | T. Y.    |
| F    | Updated LED offering                | 05/03/12 | T. Y.    |
| G    | Updated Bi-Color Polarity Table     | 12/18/12 | T. Y.    |
| H    | Updated LED Optical Characteristics | 09/15/15 | J. C.    |



| 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       |

( Mounting Hardware included, packed separately )



## ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

- REVERSE VOLTAGE \_\_\_\_\_ 5V
- REVERSE CURRENT ( VR=5V) \_\_\_\_\_ 100µA
- 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 ) |         |
|---|---------|
| DECIMALS  | ANGULAR |
| .X ± .1   | X° ± 1° |
| .XX ± .02   |         |
| .XXX ± .010                                       |         |

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**TITLE:** STD METAL PANEL MOUNT INDICATORS


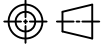
**DESIGNED:** David Green **DATE:** 02/14/03 **PART NO:** MPR3XX **REVISION:** H

**CHECKED:** M. Chen **DATE:** 02/14/03 **CAGE CODE :** 32559 **SHEET #** 1 **OF** 4

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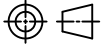
|      |               |      |          |
|------|---------------|------|----------|
| REV. | DESCRIPTION   | DATE | APPROVED |
|      | SEE SHEET #1. |      |          |

| 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 |
| MPR3BWC       | GaN/SiC   | 430              | BLUE          | WATER CLEAR     | 25                          | 4      | 4.5 | 15       | 20                              | 3BWC-F    |     |
| MPR3BWD       | GaN/SiC   | 430              | BLUE          | DIFFUSED        | 25                          | 4      | 4.5 | 10       | 35                              | 3BWD-F    |     |
| MPR3BWT       | GaN/SiC   | 430              | BLUE          | TINTED          | 25                          | 4      | 4.5 | 15       | 20                              | 3BWT-F    |     |
| MPR3GC        | GaP/GaP   | 568              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.8 | 40       | 20                              | 3GC-F     |     |
| MPR3GD        | GaP/GaP   | 568              | GREEN         | DIFFUSED        | 30                          | 2.1    | 2.8 | 25       | 35                              | 3GD-F     |     |
| MPR3GT        | GaP/GaP   | 568              | GREEN         | TINTED          | 30                          | 2.1    | 2.8 | 40       | 20                              | 3GT-F     |     |
| MPR3PGC       | GaP/GaP   | 555              | PURE GREEN    | WATER CLEAR     | 30                          | 2.2    | 2.8 | 10       | 20                              | 3PGC-F    |     |
| MPR3PGD       | GaP/GaP   | 555              | PURE GREEN    | DIFFUSED        | 30                          | 2.2    | 2.8 | 5        | 35                              | 3PGD-F    |     |
| MPR3PGT       | GaP/GaP   | 555              | PURE GREEN    | TINTED          | 30                          | 2.2    | 2.8 | 10       | 20                              | 3PGT-F    |     |
| MPR3YC        | GaAsP/GaP | 590              | YELLOW        | WATER CLEAR     | 30                          | 2      | 2.8 | 40       | 20                              | 3YC-F     |     |
| MPR3YD        | GaAsP/GaP | 590              | YELLOW        | DIFFUSED        | 30                          | 2      | 2.8 | 20       | 35                              | 3YD-F     |     |
| MPR3YT        | GaAsP/GaP | 590              | YELLOW        | TINTED          | 30                          | 2      | 2.8 | 40       | 20                              | 3YT-F     |     |
| MPR3AC        | GaAsP/GaP | 605              | AMBER         | WATER CLEAR     | 30                          | 2      | 2.8 | 40       | 20                              | 3AC-F     |     |
| MPR3AD        | GaAsP/GaP | 605              | AMBER         | DIFFUSED        | 30                          | 2      | 2.8 | 25       | 35                              | 3AD-F     |     |
| MPR3AT        | GaAsP/GaP | 605              | AMBER         | TINTED          | 30                          | 2      | 2.8 | 40       | 20                              | 3AT-F     |     |
| MPR3HC        | GaAsP/GaP | 625              | HE RED        | WATER CLEAR     | 30                          | 2      | 2.8 | 50       | 20                              | 3HC-F     |     |
| MPR3HD        | GaAsP/GaP | 625              | HE RED        | DIFFUSED        | 30                          | 2      | 2.8 | 30       | 35                              | 3HD-F     |     |
| MPR3HT        | GaAsP/GaP | 625              | HE RED        | TINTED          | 30                          | 2      | 2.8 | 50       | 20                              | 3HT-F     |     |
| MPR3RC        | GaP/GaP   | 700              | RED           | WATER CLEAR     | 20                          | 2.1    | 2.8 | 2.5      | 35                              | 3RC-F     |     |
| MPR3RD        | GaP/GaP   | 700              | RED           | DIFFUSED        | 20                          | 2.1    | 2.8 | 2        | 20                              | 3RD-F     |     |
| MPR3RT        | GaP/GaP   | 700              | RED           | TINTED          | 20                          | 2.1    | 2.8 | 2.5      | 20                              | 3RT-F     |     |
| MPR3BC-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        |                                 |           |     |
| MPR3BC        | GaAsP/GaP | 625              | RED           | DIFFUSED        | 30                          | 2.0    | 2.8 | 6        | 45                              | 3BC-F     |     |
|               | GaP/GaP   | 568              | GREEN         |                 | 30                          | 2.1    | 2.8 | 6        |                                 |           |     |
| MPR3BC-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        |                                 |           |     |
| MPR3BC-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        |                                 |           |     |

|   |                          |  |                       |
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|          |                          |  |                       |
| DESIGNED:<br><b>David Green</b>   | DATE:<br><b>02/14/03</b> | PART NO:<br><b>MPR3XX</b>  | REVISION:<br><b>H</b> |
| CHECKED:<br><b>M. Chen</b>  | DATE:<br><b>02/14/03</b> | CAGE CODE : <b>32559</b>   | SHEET # <b>2 OF 4</b> |
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| 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 |
| MPR3UBWC      | GaN/SiC        | 470              | BLUE          | WATER CLEAR     | 30                          | 4      | 4.5 | 400      | 30                              | 3UBWC-0.6K-F |     |
| MPR3SGC       | GaP/GaP        | 568              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.8 | 50       | 20                              | 3SGC-F       |     |
| MPR3SGD       | GaP/GaP        | 568              | GREEN         | DIFFUSED        | 30                          | 2.1    | 2.8 | 30       | 35                              | 3SGD-F       |     |
| MPR3SGT       | GaP/GaP        | 568              | GREEN         | TINTED          | 30                          | 2.1    | 2.8 | 50       | 20                              | 3SGT-F       |     |
| MPR3SYC       | GaAsP/GaP      | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.8 | 50       | 20                              | 3SYC-F       |     |
| MPR3SYD       | GaAsP/GaP      | 590              | YELLOW        | DIFFUSED        | 30                          | 2.0    | 2.8 | 30       | 35                              | 3SYD-F       |     |
| MPR3SYT       | GaAsP/GaP      | 590              | YELLOW        | TINTED          | 30                          | 2.0    | 2.8 | 50       | 20                              | 3SYT-F       |     |
| MPR3SAC       | AlGaInP        | 605              | AMBER         | WATER CLEAR     | 30                          | 1.8    | 2.4 | 300      | 20                              | 3SAC-F       |     |
| MPR3SAD       | AlGaInP        | 605              | AMBER         | DIFFUSED        | 30                          | 1.8    | 2.4 | 100      | 35                              | 3SAD-F       |     |
| MPR3SAT       | AlGaInP        | 605              | AMBER         | TINTED          | 30                          | 1.8    | 2.4 | 300      | 20                              | 3SAT-F       |     |
| MPR3SRC       | GaAlAs/GaAs    | 645              | SUPER RED     | WATER CLEAR     | 30                          | 1.7    | 2.4 | 60       | 20                              | 3SRC-F       |     |
| MPR3SRD       | GaAlAs/GaAs    | 645              | SUPER RED     | DIFFUSED        | 30                          | 1.7    | 2.4 | 40       | 35                              | 3SRD-F       |     |
| MPR3SRT       | GaAlAs/GaAs    | 645              | SUPER RED     | TINTED          | 30                          | 1.7    | 2.4 | 60       | 20                              | 3SRT-F       |     |
| MPR3UGC       | AlGaInP        | 570              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.4 | 200      | 20                              | 3UGC-F       |     |
| MPR3UGC       | AlGaInP        | 570              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.4 | 300      | 35                              | 3UGC-F       |     |
| MPR3UYC       | AlGaInP        | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.4 | 300      | 20                              | 3UYC-F       |     |
| MPR3UYC       | AlGaInP        | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.4 | 400      | 20                              | 3UYC-F       |     |
| MPR3UUYC      | AlGaInP        | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.4 | 600      | 35                              | 3UUYC-F      |     |
| MPR3UOC       | AlGaInP        | 625              | ORANGE        | WATER CLEAR     | 30                          | 1.8    | 2.4 | 300      | 20                              | 3UOC-F       |     |
| MPR3SUOC      | AlGaInP        | 625              | ORANGE        | WATER CLEAR     | 30                          | 1.8    | 2.4 | 400      | 20                              | 3SUOC-F      |     |
| MPR3URC       | GaAlAs/GaAs    | 645              | RED           | WATER CLEAR     | 30                          | 1.7    | 2.4 | 200      | 35                              | 3URC-F       |     |
| MPR3SURC      | AlGaInP        | 640              | RED           | WATER CLEAR     | 30                          | 1.8    | 2.4 | 200      | 20                              | 3SURC-F      |     |
| MPR3UWC       | InGaN/Sapphire | 6500K            | WHITE         | WATER CLEAR     | 30                          | 3.2    | 3.6 | 6000     | 35                              | 3UWC1.035C-F |     |

|   |  |  |                                     |
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| X° ± 5°   |  |  |                                     |
|  |  | TITLE: STD METAL PANEL MOUNT INDICATORS  |                                     |
|   |  | DESIGNED: David Green  | DATE: 02/14/03                      |
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| LED Assy. No. | Chip        |                         |               | Lens Appearance | Absolute Max. Ratings |         |             | Electro-Optical Data @ 2mA |     |          | Viewing Angle 2 θ 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      |                           |         |
| MPR3BWDL      | GaN/siC     | 430                     | BLUE          | DIFFUSED        | 20                    | 7       | -           | 3.8                        | 4.2 | 2.5      | 35                        | 3BWDL-F |
| MPR3GDL       | GaP/GaP     | 568                     | GREEN         | DIFFUSED        | 10                    | 7       | -           | 2.1                        | 2.6 | 4.0      | 35                        | 3GDL-F  |
| MPR3PGDL      | GaP/GaP     | 555                     | PURE GREEN    | DIFFUSED        | 10                    | 7       | -           | 2.1                        | 2.6 | 0.2      | 35                        | 3PGDL-F |
| MPR3YDL       | GaAsP/GaP   | 590                     | YELLOW        | DIFFUSED        | 10                    | 7       | -           | 2.0                        | 2.6 | 2.0      | 35                        | 3YDL-F  |
| MPR3ADL       | GaAsP/GaP   | 605                     | AMBER         | DIFFUSED        | 10                    | 7       | -           | 2.0                        | 2.6 | 4.0      | 35                        | 3ADL-F  |
| MPR3HDL       | GaAsP/GaP   | 625                     | HE RED        | DIFFUSED        | 10                    | 7       | -           | 2.0                        | 2.6 | 2.5      | 35                        | 3HDL-F  |
| MPR3RDL       | GaP/GaP     | 700                     | RED           | DIFFUSED        | 10                    | 7       | -           | 2.1                        | 2.6 | 0.5      | 35                        | 3RDL-F  |
| MPR3SRDL      | GaAlAs/GaAs | 645                     | RED           | DIFFUSED        | 10                    | 7       | -           | 2.0                        | -   | 8.0      | 35                        | 3SRDL-F |

| LED Assy. No.  | Peak Wave Length λp(nm) | Emitted Color | Lens Appearance | Electro-Optical Data |        |     |          | Viewing Angle 2 θ½ (Deg) | LED P/N  |
|----------------|-------------------------|---------------|-----------------|----------------------|--------|-----|----------|--------------------------|----------|
|                |                         |               |                 | If (mA)              | Vf (V) |     | Iv (mcd) |                          |          |
|                |                         |               |                 |                      | MAX    | TYP |          |                          |          |
| <b>5 Volt</b>  |                         |               |                 | <b>Data @ 5V</b>     |        |     |          |                          |          |
| MPR3BWD5V      | BLUE                    | 430           | DIFFUSED        | -                    | -      | 5   | 10       | 35                       | 3BWD5V-F |
| MPR3GC5V       | GREEN                   | 568           | WATER CLEAR     | -                    | -      | 5   | 40       | 20                       | 3GC5V-F  |
| MPR3GD5V       | GREEN                   | 568           | DIFFUSED        | -                    | -      | 5   | 25       | 35                       | 3GD5V-F  |
| MPR3GT5V       | GREEN                   | 568           | TINTED          | -                    | -      | 5   | 40       | 20                       | 3GT5V-F  |
| MPR3AD5V       | AMBER                   | 605           | DIFFUSED        | -                    | -      | 5   | 25       | 35                       | 3AD5V-F  |
| MPR3HD5V       | HE RED                  | 625           | DIFFUSED        | -                    | -      | 5   | 30       | 35                       | 3HD5V-F  |
| MPR3RD5V       | RED                     | 700           | DIFFUSED        | -                    | -      | 5   | 2        | 35                       | 3RD5V-F  |
| MPR3YD5V       | YELLOW                  | 590           | DIFFUSED        | -                    | -      | 5   | 20       | 35                       | 3YD5V-F  |
| <b>12 Volt</b> |                         |               |                 | <b>Data @ 12V</b>    |        |     |          |                          |          |
| MPR3GC12V      | GREEN                   | 568           | WATER CLEAR     | -                    | -      | 12  | 40       | 20                       | 3GC12V-F |
| MPR3GD12V      | GREEN                   | 568           | DIFFUSED        | -                    | -      | 12  | 25       | 35                       | 3GD12V-F |
| MPR3HC12V      | HE RED                  | 625           | WATER CLEAR     | -                    | -      | 12  | 50       | 20                       | 3HC12V-F |
| MPR3HD12V      | HE RED                  | 625           | DIFFUSED        | -                    | -      | 12  | 30       | 35                       | 3HD12V-F |
| MPR3RC12V      | RED                     | 700           | WATER CLEAR     | -                    | -      | 12  | 6        | 20                       | 3RC12V-F |
| MPR3RD12V      | RED                     | 700           | DIFFUSED        | -                    | -      | 12  | 2        | 35                       | 3RD12V-F |
| MPR3YC12V      | YELLOW                  | 590           | WATER CLEAR     | -                    | -      | 12  | 40       | 20                       | 3YC12V-F |
| MPR3YD12V      | YELLOW                  | 590           | DIFFUSED        | -                    | -      | 12  | 25       | 35                       | 3YD12V-F |

|   |  |                          |  |   |
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| DESIGNED:<br><b>David Green</b>   |  | DATE:<br><b>02/14/03</b> |  |   |
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