

| REV.     | DESCRIPTION                      | DATE            | APPROVED     |
|----------|----------------------------------|-----------------|--------------|
| <b>D</b> | Added PM5UGCW.X Specs            | <b>03/02/09</b> | <b>T. Y.</b> |
| <b>E</b> | Added 5WC2.520 & 5WC4.030 Specs  | <b>06/29/09</b> | <b>T. Y.</b> |
| <b>F</b> | Added 5WC7.015 & 5XRC8.515 Specs | <b>10/01/09</b> | <b>T. Y.</b> |
| <b>G</b> | Added 5BC-Y/G Specs              | <b>02/09/10</b> | <b>T. Y.</b> |
| <b>H</b> | Updated LED Offering             | <b>05/03/12</b> | <b>T. Y.</b> |
| <b>J</b> | Updated BOM item 1               | <b>11/13/12</b> | <b>T. Y.</b> |
| <b>K</b> | Corrected LED P/N Typo in Table  | <b>04/23/14</b> | <b>J. C.</b> |

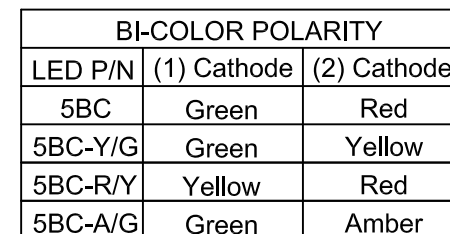
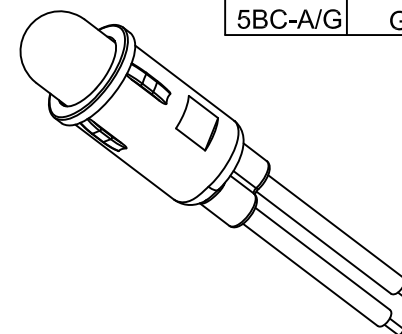


Diagram illustrating the recommended mounting hole dimensions. The hole is circular with a diameter of  $\varnothing.250^{+.003}_{-.002}$  inches. The hole is centered on a vertical and horizontal axis.



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<br>( UNLESS OTHERWISE SPECIFIED )<br><u>DECIMALS</u><br>.X      ± .1<br>.XX     ± .02<br>.XXX    ± .010 |  | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808      FAX: (949) 951-3974 |  |
| <u>ANGULAR</u><br>X°    ± 1°                                                                                               |  |                                                                                 |  |
| DESIGNED:<br><b>David Green</b>                                                                                            |  | DATE:<br><b>10/06/04</b>                                                                                                                                             |  |
| CHECKED:<br><b>T. Yin</b>                                                                                                  |  | DATE:<br><b>10/06/04</b>                                                                                                                                             |  |
| TITLE:<br>STD PANEL MOUNT<br>INDICATORS W/ WIRES                                                                           |  | PART NO:<br>PM5XXWX.X                                                                                                                                                |  |
| REVISION<br><b>K</b>                                                                                                       |  | 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 1/2<br>(Deg) | LED P/N |
|---------------|-----------|------------------|---------------|-----------------|----------------------------|-----------|-----|-------------|-----------------------------------|---------|
|               | Material  | Peak Wave Length | Emitted Color |                 | If<br>(mA)                 | Vf<br>(V) |     | Iv<br>(mcd) |                                   |         |
|               |           |                  |               |                 | MAX                        | TYP       | MAX | TYP         |                                   |         |
| PM5BWCWX.X    | GaN/SiC   | 430              | BLUE          | WATER CLEAR     | 25                         | 4         | 4.5 | 25          | 20                                | 5BWC    |
| PM5BWDWX.X    | GaN/SiC   | 430              | BLUE          | DIFFUSED        | 25                         | 4         | 4.5 | 15          | 45                                | 5BWD    |
| PM5BWTWX.X    | GaN/SiC   | 430              | BLUE          | TINTED          | 25                         | 4         | 4.5 | 30          | 20                                | 5BWT    |
| PM5GCW.X.     | GaP/GaP   | 568              | GREEN         | WATER CLEAR     | 30                         | 2.1       | 2.8 | 40          | 35                                | 5GC     |
| PM5GDWX.X     | GaP/GaP   | 568              | GREEN         | DIFFUSED        | 30                         | 2.1       | 2.8 | 25          | 45                                | 5GD     |
| PM5GTWX.X     | GaP/GaP   | 568              | GREEN         | TINTED          | 30                         | 2.1       | 2.8 | 40          | 35                                | 5GT     |
| PM5PGCW.X     | GaP/GaP   | 555              | PURE GREEN    | WATER CLEAR     | 30                         | 2.2       | 2.8 | 10          | 35                                | 5PGC    |
| PM5PGDWX.X    | GaP/GaP   | 555              | PURE GREEN    | DIFFUSED        | 30                         | 2.2       | 2.8 | 10          | 45                                | 5PGD    |
| PM5PGTWX.X    | GaP/GaP   | 555              | PURE GREEN    | TINTED          | 30                         | 2.2       | 2.8 | 10          | 35                                | 5PGT    |
| PM5YCWX.X     | GaAsp/GaP | 590              | YELLOW        | WATER CLEAR     | 30                         | 2         | 2.8 | 40          | 35                                | 5YC     |
| PM5YDWX.X     | GaAsp/GaP | 590              | YELLOW        | DIFFUSED        | 30                         | 2         | 2.8 | 25          | 45                                | 5YD     |
| PM5YTWX.X     | GaAsp/GaP | 590              | YELLOW        | TINTED          | 30                         | 2         | 2.8 | 40          | 35                                | 5YT     |
| PM5ACWX.X     | GaAsp/GaP | 605              | AMBER         | WATER CLEAR     | 30                         | 2         | 2.8 | 40          | 35                                | 5AC     |
| PM5ADWX.X     | GaAsp/GaP | 605              | AMBER         | DIFFUSED        | 30                         | 2         | 2.8 | 25          | 45                                | 5AD     |
| PM5ATWX.X     | GaAsp/GaP | 605              | AMBER         | TINTED          | 30                         | 2         | 2.8 | 40          | 35                                | 5AT     |
| PM5HCWX.X     | GaAsp/GaP | 625              | HE RED        | WATER CLEAR     | 30                         | 2         | 2.8 | 40          | 35                                | 5HC     |
| PM5HDWX.X     | GaAsp/GaP | 625              | HE RED        | DIFFUSED        | 30                         | 2         | 2.8 | 25          | 45                                | 5HD     |
| PM5HTWX.X     | GaAsp/GaP | 625              | HE RED        | TINTED          | 30                         | 2         | 2.8 | 40          | 35                                | 5HT     |
| PM5RCWX.X     | GaP/GaP   | 700              | RED           | WATER CLEAR     | 20                         | 2.1       | 2.8 | 2           | 35                                | 5RC     |
| PM5RDWX.X     | GaP/GaP   | 700              | RED           | DIFFUSED        | 20                         | 2.1       | 2.8 | 2           | 45                                | 5RD     |
| PM5RTWX.X     | GaP/GaP   | 700              | RED           | TINTED          | 20                         | 2.1       | 2.8 | 2           | 35                                | 5RT     |
| PM5BCWX.X-A/G | GaAsp/GaP | 605              | AMBER         | WHITE DIFFUSED  | 30                         | 2         | 2.8 | 6           | 45                                | 5BC-A/G |
|               | GaP/GaP   | 568              | GREEN         |                 | 30                         | 2.1       | 2.8 | 6           |                                   |         |
| PM5BCWX.X     | GaAsp/GaP | 625              | RED           | WHITE DIFFUSED  | 30                         | 2         | 2.8 | 6           | 45                                | 5BC     |
|               | GaP/GaP   | 568              | GREEN         |                 | 30                         | 2.1       | 2.8 | 8           |                                   |         |
| PM5BCWX.X-R/Y | GaAsp/GaP | 625              | RED           | WHITE DIFFUSED  | 30                         | 2         | 2.8 | 6           | 45                                | 5BC-R/Y |
|               | GaP/GaP   | 590              | YELLOW        |                 | 30                         | 2         | 2.8 | 5           |                                   |         |
| PM5BCWX.X-Y/G | GaAsp/GaP | 590              | YELLOW        | WHITE DIFFUSED  | 30                         | 2         | 2.8 | 5           | 45                                | 5BC-Y/G |
|               | GaP/GaP   | 568              | GREEN         |                 | 30                         | 2.1       | 2.8 | 8           |                                   |         |

|                                                                                               |                                                          |                                                                                                                                                                      |                                                      |                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )<br><u>±10% ALL VALUES</u> <u>ANGULAR</u> |                                                          | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808      FAX: (949) 951-3974 |                                                      |                |
| DESIGNED:<br><b>David Green</b><br><br>CHECKED:<br><b>T. Yin</b>                              | DATE:<br><b>10/06/04</b><br><br>DATE:<br><b>10/06/04</b> |                                                                                 | <b>TITLE:</b> STD PANEL MOUNT<br>INDICATORS W/ WIRES |                |
|                                                                                               |                                                          | <b>PART NO:</b><br>PM5XXWX.X                                                                                                                                         | <b>REVISION:</b><br>K                                |                |
|                                                                                               |                                                          | CAGE CODE : 32559                                                                                                                                                    |                                                      | SHEET # 2 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 1/2<br>(Deg) | LED P/N   |
|--------------|-------------|------------------|---------------|-----------------|----------------------------|--------|-----|----------|-----------------------------------|-----------|
|              | Material    | Peak Wave Length | Emitted Color |                 | If (mA)                    | Vf (V) |     | Iv (mcd) |                                   |           |
|              |             |                  |               |                 |                            | MAX    | TYP | MAX      |                                   |           |
| PM5UBWCWX.X  | InGaN/SiC   | 468              | BLUE          | WATER CLEAR     | 76                         | 3.7    | 4.5 | 2500     | 15                                | 5BWC2.515 |
| PM5SGCWX.X   | GaP/GaP     | 568              | GREEN         | WATER CLEAR     | 30                         | 2.1    | 2.8 | 60       | 35                                | 5SGC      |
| PM5SGDWX.X   | GaP/GaP     | 568              | GREEN         | DIFFUSED        | 30                         | 2.1    | 2.8 | 50       | 40                                | 5SGD      |
| PM5SGTWX.X   | GaP/GaP     | 568              | GREEN         | TINTED          | 30                         | 2.1    | 2.8 | 60       | 35                                | 5SGT      |
| PM5SYCWX.X   | GaAsP/GaP   | 590              | YELLOW        | WATER CLEAR     | 30                         | 2      | 2.8 | 600      | 35                                | 5SYC      |
| PM5SYDWX.X   | GaAsP/GaP   | 590              | YELLOW        | DIFFUSED        | 30                         | 2      | 2.8 | 150      | 40                                | 5SYD      |
| PM5SYTWX.X   | GaAsP/GaP   | 590              | YELLOW        | TINTED          | 30                         | 2      | 2.8 | 600      | 35                                | 5SYT      |
| PM5SRCWX.X   | GaAlAs/GaAs | 645              | SUPER RED     | WATER CLEAR     | 30                         | 1.7    | 2.4 | 60       | 35                                | 5SRC      |
| PM5SRDWX.X   | GaAlAs/GaAs | 645              | SUPER RED     | DIFFUSED        | 30                         | 1.7    | 2.4 | 40       | 40                                | 5SRD      |
| PM5SRTWX.X   | GaAlAs/GaAs | 645              | SUPER RED     | TINTED          | 30                         | 1.7    | 2.4 | 60       | 35                                | 5SRT      |
| PM5UGCWX.X   | AlGaInP     | 570              | GREEN         | WATER CLEAR     | 30                         | 2.1    | 2.4 | 600      | 35                                | 5UGC      |
| PMTSUGCWX.X  | AlGaInP     | 570              | GREEN         | WATER CLEAR     | 30                         | 2.1    | 2.4 | 300      | 35                                | 5SUGC     |
| PM5UYCWX.X   | AlGaInP     | 590              | YELLOW        | WATER CLEAR     | 30                         | 2      | 2.4 | 1000     | 30                                | 5UYC      |
| PM5SUYCWX.X  | AlGaInP     | 590              | YELLOW        | WATER CLEAR     | 30                         | 2      | 2.4 | 700      | 35                                | 5SUYC     |
| PM5UOCWX.X   | AlGaInP     | 590              | YELLOW        | WATER CLEAR     | 30                         | 2      | 2.4 | 500      | 35                                | 5UUYC     |
| PM5UOCWX.X   | AlGaInP     | 625              | ORANGE        | WATER CLEAR     | 30                         | 1.8    | 2.4 | 1400     | 35                                | 5UOC      |
| PM5SUOCWX.X  | AlGaInP     | 625              | ORANGE        | WATER CLEAR     | 30                         | 1.8    | 2.4 | 1300     | 35                                | 5SUOC     |
| PM5URCWX.X   | GaAlAs/GaAs | 645              | RED           | WATER CLEAR     | 30                         | 1.7    | 2.4 | 400      | 30                                | 5URC      |
| PM5SURCWX.X  | AlGaInP     | 640              | RED           | WATER CLEAR     | 30                         | 1.8    | 2.4 | 500      | 35                                | 5SURC     |
| PM5UWCWX.X   | InGaN/SiC   | 6500K            | WHITE         | WATER CLEAR     | 100                        | 3.5    | 4.2 | 2700     | 30                                | 5WC2.730  |

|                                                                                |  |                                                                                                                                                                             |  |                                                                                             |  |                       |
|--------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--|-----------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )<br><u>±10% ALL VALUES</u> |  | ANGULAR<br><br>X° ± 1°                                                                                                                                                      |  | <div>BIVAR®</div><br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |  |                       |
|                                                                                |  |   |  | TITLE: STD PANEL MOUNT<br>INDICATORS W/ WIRES                                               |  |                       |
| DESIGNED:<br><b>David Green</b>                                                |  | DATE:<br><b>10/06/04</b>                                                                                                                                                    |  | PART NO:<br><b>PM5XXWX.X</b>                                                                |  | REVISION:<br><b>K</b> |
| CHECKED:<br><b>T. Yin</b>                                                      |  | DATE:<br><b>10/06/04</b>                                                                                                                                                    |  | CAGE CODE : <b>32559</b>                                                                    |  | SHEET # 3 OF 4        |
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|------|---------------|------|----------|
| REV. | DESCRIPTION   | DATE | APPROVED |
|      | See Sheet # 1 |      |          |

| LED Assy. No. | Peak Wave Length<br>$\lambda_p$ (nm) | Emitted Color | Lens Appearance | Max. Rating | Electro-Optical Data @ 2m A |     |             | Viewing Angle<br>2 $\theta$ ½<br>(Deg) | LED P/N |
|---------------|--------------------------------------|---------------|-----------------|-------------|-----------------------------|-----|-------------|----------------------------------------|---------|
|               |                                      |               |                 | If<br>(mA)  | Vf<br>(V)                   |     | Iv<br>(mcd) |                                        |         |
|               |                                      |               |                 | MAX         | TYP                         | MAX | TYP         |                                        |         |
| PM5BWDLWX.X   | 430                                  | BLUE          | DIFFUSED        | 7           | 3.8                         | 4.2 | 4           | 45                                     | 5BWDL   |
| PM5PGDLWX.X   | 555                                  | PURE GREEN    | DIFFUSED        | 7           | 2.1                         | 2.6 | 1           | 45                                     | 5PGDL   |
| PM5GDLWX.X    | 568                                  | GREEN         | DIFFUSED        | 7           | 2.1                         | 2.6 | 5           | 45                                     | 5GDL    |
| PM5YDLWX.X    | 590                                  | YELLOW        | DIFFUSED        | 7           | 2.0                         | 2.6 | 4           | 45                                     | 5YDL    |
| PM5ADLWX.X    | 605                                  | AMBER         | DIFFUSED        | 7           | 2.0                         | 2.6 | 4           | 45                                     | 5ADL    |
| PM5HDLWX.X    | 625                                  | HE RED        | DIFFUSED        | 7           | 2.0                         | 2.6 | 5           | 45                                     | 5HDL    |
| PM5SRDLWX.X   | 645                                  | SUPER RED     | DIFFUSED        | 7           | 1.7                         | 2.3 | 6           | 45                                     | 5SRDL   |

| Assembly P/N | Peak Wave Length<br>λp(nm) | Emitted Color | Lens Appearance | Electro-Optical Data |           |     |             | Viewing Angle<br>2 θ 1/2<br>(Deg) | LED P/N |
|--------------|----------------------------|---------------|-----------------|----------------------|-----------|-----|-------------|-----------------------------------|---------|
|              |                            |               |                 | If<br>(mA)           | Vf<br>(V) |     | Iv<br>(mcd) |                                   |         |
|              |                            |               |                 | MAX                  | TYP       | MAX | TYP         |                                   |         |
| 5 Volt       |                            |               |                 | Data @ 5V            |           |     |             |                                   |         |
| PM5BWD5VWX.X | 430                        | BLUE          | DIFFUSED        | -                    | -         | 5   | 15          | 40                                | 5BWD5V  |
| PM5GC5VWX.X  | 568                        | GREEN         | WATER CLEAR     | -                    | -         | 5   | 40          | 40                                | 5GC5V   |
| PM5GD5VWX.X  | 568                        | GREEN         | DIFFUSED        | -                    | -         | 5   | 25          | 40                                | 5GD5V   |
| PM5GT5VWX.X  | 568                        | GREEN         | TINTED          | -                    | -         | 5   | 40          | 40                                | 5GT5V   |
| PM5AD5VWX.X  | 605                        | AMBER         | DIFFUSED        | -                    | -         | 5   | 25          | 40                                | 5AD5V   |
| PM5HD5VWX.X  | 625                        | HE RED        | DIFFUSED        | -                    | -         | 5   | 30          | 40                                | 5HD5V   |
| PM5RD5VWX.X  | 700                        | RED           | DIFFUSED        | -                    | -         | 5   | 1.5         | 40                                | 5RD5V   |
| PM5YD5VWX.X  | 590                        | YELLOW        | DIFFUSED        | -                    | -         | 5   | 25          | 40                                | 5YD5V   |
| 12 Volt      |                            |               |                 | Data @ 12V           |           |     |             |                                   |         |
| PM5GC12VWX.X | 568                        | GREEN         | WATER CLEAR     | -                    | -         | 12  | 40          | 35                                | 5GC12V  |
| PM5GD12VWX.X | 568                        | GREEN         | DIFFUSED        | -                    | -         | 12  | 25          | 40                                | 5GD12V  |
| PM5HC12VWX.X | 625                        | HE RED        | WATER CLEAR     | -                    | -         | 12  | 50          | 35                                | 5HC12V  |
| PM5HD12VWX.X | 625                        | HE RED        | DIFFUSED        | -                    | -         | 12  | 30          | 40                                | 5HD12V  |
| PM5RC12VWX.X | 700                        | RED           | WATER CLEAR     | -                    | -         | 12  | 2           | 35                                | 5RC12V  |
| PM5RD12VWX.X | 700                        | RED           | DIFFUSED        | -                    | -         | 12  | 1.5         | 40                                | 5RD12V  |
| PM5YC12VWX.X | 590                        | YELLOW        | WATER CLEAR     | -                    | -         | 12  | 25          | 35                                | 5YC12V  |
| PM5YD12VWX.X | 590                        | YELLOW        | DIFFUSED        | -                    | -         | 12  | 20          | 40                                | 5YD12V  |

|                                                                         |                          |                                                                                                                                                                 |                       |
|-------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )<br>±10% ALL VALUES |                          | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |                       |
| ANGULAR<br>X° ± 1°                                                      |                          | <br>TITLE: STD PANEL MOUNT INDICATORS W/ WIRES                             |                       |
| DESIGNED:<br><b>David Green</b>                                         | DATE:<br><b>10/06/04</b> | PART NO:<br><b>PM5XXWX.X</b>                                                                                                                                    | REVISION:<br><b>K</b> |
| CHECKED:<br><b>T. Yin</b>                                               | DATE:<br><b>10/06/04</b> | CAGE CODE : <b>32559</b>                                                                                                                                        | SHEET # <b>4 OF 4</b> |
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