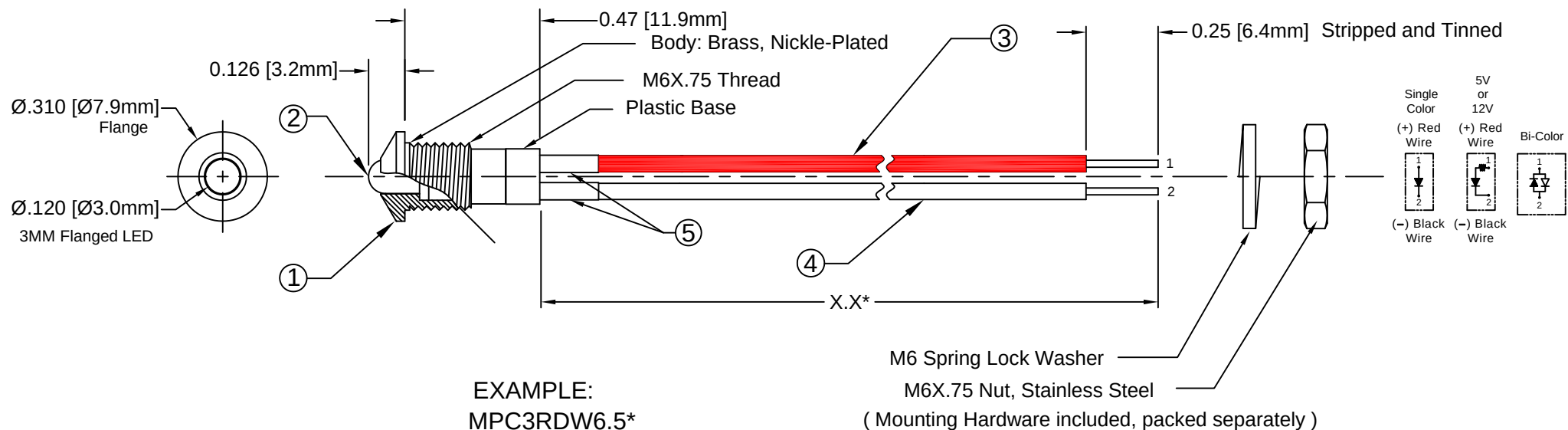


| ITEM | Q'TY | PART NUMBER | PART DESCRIPTION                  |
|------|------|-------------|-----------------------------------|
| 1    | 1    | MPC3        | Chrome Panel Mount Holder, 3mm    |
| 2    | 1    | 3XX-F       | T-1 (3mm) Flanged LED             |
| 3    | 1    | BWS24AWG-RD | 24AWG Wire Lead, U.L. 1007, Red   |
| 4    | 1    | BWS24AWG-BK | 24AWG Wire Lead, U.L. 1007, Black |
| 5    | 2    | BST200-BK   | Shrink Tubing, 0.500" Black       |

| REV.     | DESCRIPTION                           | DATE            | APPROVED     |
|----------|---------------------------------------|-----------------|--------------|
| <b>A</b> | Engineering Release.                  | <b>07/27/07</b> | <b>M. C.</b> |
| <b>B</b> | Updated 3UWC-0.6K-F with 3UWC1.035C-F | <b>04/26/12</b> | <b>T. Y.</b> |
| <b>C</b> | Updated LED offering                  | <b>05/03/12</b> | <b>T. Y.</b> |
| <b>D</b> | Updated Bi-Color Polarity Table       | <b>12/18/12</b> | <b>T. Y.</b> |
| <b>E</b> | Edit Part Number on Page 2            | <b>11/11/13</b> | <b>G. W.</b> |
| <b>F</b> | Updated LED Optical Characteristics   | <b>09/14/15</b> | <b>J. C.</b> |

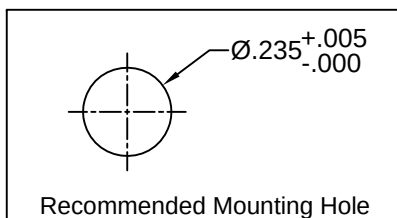


EXAMPLE:  
MPC3RDW6.5\*

Wire Length in inches

### LED Color, Lens Appearance

## L-Series



| 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 (T<sub>a</sub> = 25°C)

REVERSE VOLTAGE \_\_\_\_\_ 5V  
 REVERSE CURRENT ( VR=5V) \_\_\_\_\_ 100μA  
 OPERATING TEMPERATURE RANGE \_\_\_\_\_ -40°C ~ 85°C  
 STORAGE TEMPERATURE \_\_\_\_\_ -40°C ~ 100°C  
 LEAD SOLDERING TEMPERATURE (1/16" FROM BODY) \_\_\_\_\_ 260°C for 5 Seconds

|                                                                                       |                             |                                                                                       |                       |
|---------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-----------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )                                  |                             |  |                       |
| <u>DECIMALS</u><br>.X     ± .1<br>.XX    ± .02<br>.XXX   ± .010                       | <u>ANGULAR</u><br>X°   ± 1° | 4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808    FAX: (949) 951-3974             |                       |
|  |                             | <b>TITLE:</b> STD METAL PANEL MOUNT<br>INDICATORS W/ WIRES                            |                       |
| <b>DESIGNED:</b><br>Dan Beckman                                                       | <b>DATE:</b><br>07/27/07    | <b>PART NO:</b><br>MPC3XXWX.X                                                         | <b>REVISION:</b><br>F |
| <b>CHECKED:</b><br>T. Yin                                                             | <b>DATE:</b><br>07/27/07    | <b>CAGE CODE :</b> 32559                                                              | <b>SHEET # 1 OF 4</b> |
| CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.                                       |                             |                                                                                       |                       |

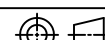
| REV. | DESCRIPTION   | DATE | APPROVED |
|------|---------------|------|----------|
|      | SEE SHEET #1. |      |          |
|      |               |      |          |

| 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                             |           |
| MPC3BWCWX.X    | GaN/SiC   | 430              | BLUE          | WATER CLEAR     | 25                          | 4      | 4.5 | 15       | 20                              | 3BWC-F    |
| MPC3BWDWX.X    | GaN/SiC   | 430              | BLUE          | DIFFUSED        | 25                          | 4      | 4.5 | 10       | 35                              | 3BWD-F    |
| MPC3BWTWX.X    | GaN/SiC   | 430              | BLUE          | TINTED          | 25                          | 4      | 4.5 | 15       | 20                              | 3BWT-F    |
| MPC3GCWX.X     | GaP/GaP   | 568              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.8 | 40       | 20                              | 3GC-F     |
| MPC3GDWX.X     | GaP/GaP   | 568              | GREEN         | DIFFUSED        | 30                          | 2.1    | 2.8 | 25       | 35                              | 3GD-F     |
| MPC3GTWX.X     | GaP/GaP   | 568              | GREEN         | TINTED          | 30                          | 2.1    | 2.8 | 40       | 20                              | 3GT-F     |
| MPC3PGCWX.X    | GaP/GaP   | 555              | PURE GREEN    | WATER CLEAR     | 30                          | 2.2    | 2.8 | 10       | 20                              | 3PGC-F    |
| MPC3PGDWX.X    | GaP/GaP   | 555              | PURE GREEN    | DIFFUSED        | 30                          | 2.2    | 2.8 | 5        | 35                              | 3PGD-F    |
| MPC3PGTWX.X    | GaP/GaP   | 555              | PURE GREEN    | TINTED          | 30                          | 2.2    | 2.8 | 10       | 20                              | 3PGT-F    |
| MPC3YCWX.X     | GaAsP/GaP | 590              | YELLOW        | WATER CLEAR     | 30                          | 2      | 2.8 | 40       | 20                              | 3YC-F     |
| MPC3YDWX.X     | GaAsP/GaP | 590              | YELLOW        | DIFFUSED        | 30                          | 2      | 2.8 | 20       | 35                              | 3YD-F     |
| MPC3YTWX.X     | GaAsP/GaP | 590              | YELLOW        | TINTED          | 30                          | 2      | 2.8 | 40       | 20                              | 3YT-F     |
| MPC3ACWX.X     | GaAsP/GaP | 605              | AMBER         | WATER CLEAR     | 30                          | 2      | 2.8 | 40       | 20                              | 3AC-F     |
| MPC3ADWX.X     | GaAsP/GaP | 605              | AMBER         | DIFFUSED        | 30                          | 2      | 2.8 | 25       | 35                              | 3AD-F     |
| MPC3ATWX.X     | GaAsP/GaP | 605              | AMBER         | TINTED          | 30                          | 2      | 2.8 | 40       | 20                              | 3AT-F     |
| MPC3HCWX.X     | GaAsP/GaP | 625              | HE RED        | WATER CLEAR     | 30                          | 2      | 2.8 | 50       | 20                              | 3HC-F     |
| MPC3HDWX.X     | GaAsP/GaP | 625              | HE RED        | DIFFUSED        | 30                          | 2      | 2.8 | 30       | 35                              | 3HD-F     |
| MPC3HTWX.X     | GaAsP/GaP | 625              | HE RED        | TINTED          | 30                          | 2      | 2.8 | 50       | 20                              | 3HT-F     |
| MPC3RCWX.X     | GaP/GaP   | 700              | RED           | WATER CLEAR     | 20                          | 2.1    | 2.8 | 2.5      | 35                              | 3RC-F     |
| MPC3RDWX.X     | GaP/GaP   | 700              | RED           | DIFFUSED        | 20                          | 2.1    | 2.8 | 2        | 20                              | 3RD-F     |
| MPC3RTWX.X     | GaP/GaP   | 700              | RED           | TINTED          | 20                          | 2.1    | 2.8 | 2.5      | 20                              | 3RT-F     |
| MPC3BCWX.X-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        |                                 |           |
| MPC3BCWX.X     | GaAsP/GaP | 625              | RED           | DIFFUSED        | 30                          | 2.0    | 2.8 | 6        | 45                              | 3BC-F     |
|                | GaP/GaP   | 568              | GREEN         |                 | 30                          | 2.1    | 2.8 | 6        |                                 |           |
| MPC3BCWX.X-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        |                                 |           |
| MPC3BCWX.X-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> <u>ANGULAR</u><br>X°   ± 5° |                 | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL.: (949) 951-8808    FAX: (949) 951-3974 |                       |
|                                                                                                            |                 |                                                                                                                                                                     |                       |
| DESIGNED:                                                                                                  | DATE:           | <b>TITLE:</b> STD METAL PANEL MOUNT<br>INDICATORS W/ WIRES                                                                                                          |                       |
| <b>Dan Beckman</b>                                                                                         | <b>07/27/07</b> |                                                                                                                                                                     |                       |
| CHECKED:                                                                                                   | DATE:           | <b>PART NO:</b>                                                                                                                                                     | <b>REVISION:</b>      |
| <b>T. Yin</b>                                                                                              | <b>07/27/07</b> | <b>MPC3XXWX.X</b>                                                                                                                                                   | <b>F</b>              |
|                                                                                                            |                 | <b>CAGE CODE : 32559</b>                                                                                                                                            | <b>SHEET # 2 OF 4</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 |          |                                 |              |
| MPC3UBWCWX.X  | GaN/SiC       | 470              | BLUE          | WATER CLEAR     | 30                          | 4      | 4.5 | 400      | 30                              | 3UBWC-0.6K-F |
| MPC3SGCWX.X   | GaP/GaP       | 568              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.8 | 50       | 20                              | 3SGC-F       |
| MPC3SGDWX.X   | GaP/GaP       | 568              | GREEN         | DIFFUSED        | 30                          | 2.1    | 2.8 | 30       | 35                              | 3SGD-F       |
| MPC3SGTWX.X   | GaP/GaP       | 568              | GREEN         | TINTED          | 30                          | 2.1    | 2.8 | 50       | 20                              | 3SGT-F       |
| MPC3SYCWX.X   | GaAsP/GaP     | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.8 | 50       | 20                              | 3SYC-F       |
| MPC3SYDWX.X   | GaAsP/GaP     | 590              | YELLOW        | DIFFUSED        | 30                          | 2.0    | 2.8 | 30       | 35                              | 3SYD-F       |
| MPC3SYTWX.X   | GaAsP/GaP     | 590              | YELLOW        | TINTED          | 30                          | 2.0    | 2.8 | 50       | 20                              | 3SYT-F       |
| MPC3SACWX.X   | AlGaInP       | 605              | AMBER         | WATER CLEAR     | 30                          | 1.8    | 2.4 | 300      | 20                              | 3SAC-F       |
| MPC3SADWX.X   | AlGaInP       | 605              | AMBER         | DIFFUSED        | 30                          | 1.8    | 2.4 | 100      | 35                              | 3SAD-F       |
| MPC3SATWX.X   | AlGaInP       | 605              | AMBER         | TINTED          | 30                          | 1.8    | 2.4 | 300      | 20                              | 3SAT-F       |
| MPC3SRCWX.X   | GaAlAs/GaAs   | 645              | SUPER RED     | WATER CLEAR     | 30                          | 1.7    | 2.4 | 60       | 20                              | 3SRC-F       |
| MPC3SRDWX.X   | GaAlAs/GaAs   | 645              | SUPER RED     | DIFFUSED        | 30                          | 1.7    | 2.4 | 40       | 35                              | 3SRD-F       |
| MPC3SRTWX.X   | GaAlAs/GaAs   | 645              | SUPER RED     | TINTED          | 30                          | 1.7    | 2.4 | 60       | 20                              | 3SRT-F       |
| MPC3UGCWX.X   | AlGaInP       | 570              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.4 | 200      | 20                              | 3UGC-F       |
| MPC3SUGCWX.X  | AlGaInP       | 570              | GREEN         | WATER CLEAR     | 30                          | 2.1    | 2.4 | 300      | 35                              | 3SUGC-F      |
| MPC3UYCWX.X   | AlGaInP       | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.4 | 300      | 20                              | 3UYC-F       |
| MPC3SUYCWX.X  | AlGaInP       | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.4 | 400      | 20                              | 3SUYC-F      |
| MPC3UUYCWX.X  | AlGaInP       | 590              | YELLOW        | WATER CLEAR     | 30                          | 2.0    | 2.4 | 600      | 35                              | 3UUYC-F      |
| MPC3UOCWX.X   | AlGaInP       | 625              | ORANGE        | WATER CLEAR     | 30                          | 1.8    | 2.4 | 300      | 20                              | 3UOC-F       |
| MPC3SUOCWX.X  | AlGaInP       | 625              | ORANGE        | WATER CLEAR     | 30                          | 1.8    | 2.4 | 400      | 20                              | 3SUOC-F      |
| MPC3URCWX.X   | GaAlAs/GaAs   | 645              | RED           | WATER CLEAR     | 30                          | 1.7    | 2.4 | 200      | 35                              | 3URC-F       |
| MPC3SURCWX.X  | AlGaInP       | 640              | RED           | WATER CLEAR     | 30                          | 1.8    | 2.4 | 200      | 20                              | 3SURC-F      |
| MPC3UWCWX.X   | InGaN/Sappire | 6500K            | WHITE         | WATER CLEAR     | 30                          | 3.2    | 3.6 | 6000     | 35                              | 3UWC1.035C-F |

|                                                                                                             |                          |                                                                                                                                                                 |                       |
|-------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )<br><u>±10% ALL VALUES</u><br><u>ANGULAR</u><br>X° ± 5° |                          | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |                       |
|                        |                          | TITLE: STD METAL PANEL MOUNT<br>INDICATORS W/ WIRES                                                                                                             |                       |
| DESIGNED:<br><b>Dan Beckman</b>                                                                             | DATE:<br><b>07/27/07</b> | PART NO:<br><b>MPC3XXWX.X</b>                                                                                                                                   | REVISION:<br><b>F</b> |
| CHECKED:<br><b>T. Yin</b>                                                                                   | DATE:<br><b>07/27/07</b> | CAGE CODE : <b>32559</b>                                                                                                                                        | SHEET # 3 OF 4        |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.                                                             |                          |                                                                                                                                                                 |                       |

| REV. | DESCRIPTION   | DATE | APPROVED |
|------|---------------|------|----------|
| 2.0  | 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         |                                 |         |
| MPC3BWDLWX.X  | GaN/siC     | 430                        | BLUE          | DIFFUSED        | 20                    | 7          | -           | 3.8                        | 4.2 | 2.5         | 35                              | 3BWDL-F |
| MPC3GDLWX.X   | GaP/GaP     | 568                        | GREEN         | DIFFUSED        | 10                    | 7          | -           | 2.1                        | 2.6 | 4.0         | 35                              | 3GDL-F  |
| MPC3PGDLWX.X  | GaP/GaP     | 555                        | PURE GREEN    | DIFFUSED        | 10                    | 7          | -           | 2.1                        | 2.6 | 0.2         | 35                              | 3PGDL-F |
| MPC3YDLWX.X   | GaAsP/GaP   | 590                        | YELLOW        | DIFFUSED        | 10                    | 7          | -           | 2.0                        | 2.6 | 2.0         | 35                              | 3YDL-F  |
| MPC3ADLWX.X   | GaAsP/GaP   | 605                        | AMBER         | DIFFUSED        | 10                    | 7          | -           | 2.0                        | 2.6 | 4.0         | 35                              | 3ADL-F  |
| MPC3HDLWX.X   | GaAsP/GaP   | 625                        | RED           | DIFFUSED        | 10                    | 7          | -           | 2.0                        | 2.6 | 2.5         | 35                              | 3HDL-F  |
| MPC3RDLWX.X   | GaP/GaP     | 700                        | RED           | DIFFUSED        | 10                    | 7          | -           | 2.1                        | 2.6 | 0.5         | 35                              | 3RDL-F  |
| MPC3SRDLWX.X  | GaAlAs/GaAs | 645                        | RED           | DIFFUSED        | 10                    | 7          | -           | 2.0                        | -   | 8.0         | 35                              | 3SRDL-F |

| LED Assy. No. | 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            |           |     |             |                                |          |
| MPC3BWD5VWX.X | 430                        | BLUE          | DIFFUSED        | -                    | -         | 5   | 10          | 35                             | 3BWD5V-F |
| MPC3GC5VWX.X  | 568                        | GREEN         | WATER CLEAR     | -                    | -         | 5   | 40          | 20                             | 3GC5V-F  |
| MPC3GD5VWX.X  | 568                        | GREEN         | DIFFUSED        | -                    | -         | 5   | 25          | 35                             | 3GD5V-F  |
| MPC3GT5VWX.X  | 568                        | GREEN         | TINTED          | -                    | -         | 5   | 40          | 20                             | 3GT5V-F  |
| MPC3AD5VWX.X  | 605                        | AMBER         | DIFFUSED        | -                    | -         | 5   | 25          | 35                             | 3AD5V-F  |
| MPC3HD5VWX.X  | 625                        | HE RED        | DIFFUSED        | -                    | -         | 5   | 30          | 35                             | 3HD5V-F  |
| MPC3RD5VWX.X  | 700                        | RED           | DIFFUSED        | -                    | -         | 5   | 2           | 35                             | 3RD5V-F  |
| MPC3YD5VWX.X  | 590                        | YELLOW        | DIFFUSED        | -                    | -         | 5   | 20          | 35                             | 3YD5V-F  |
| 12 Volt       |                            |               |                 | Data @ 12V           |           |     |             |                                |          |
| MPC3GC12VWX.X | 568                        | GREEN         | WATER CLEAR     | -                    | -         | 12  | 40          | 20                             | 3GC12V-F |
| MPC3GD12VWX.X | 568                        | GREEN         | DIFFUSED        | -                    | -         | 12  | 25          | 35                             | 3GD12V-F |
| MPC3HC12VWX.X | 625                        | RED           | WATER CLEAR     | -                    | -         | 12  | 50          | 20                             | 3HC12V-F |
| MPC3HD12VWX.X | 625                        | RED           | DIFFUSED        | -                    | -         | 12  | 30          | 35                             | 3HD12V-F |
| MPC3RC12VWX.X | 700                        | RED           | WATER CLEAR     | -                    | -         | 12  | 6           | 20                             | 3RC12V-F |
| MPC3RD12VWX.X | 700                        | RED           | DIFFUSED        | -                    | -         | 12  | 2           | 35                             | 3RD12V-F |
| MPC3YC12VWX.X | 590                        | YELLOW        | WATER CLEAR     | -                    | -         | 12  | 40          | 20                             | 3YC12V-F |
| MPC3YD12VWX.X | 590                        | YELLOW        | DIFFUSED        | -                    | -         | 12  | 25          | 35                             | 3YD12V-F |

|                                                                                             |                          |                                                                                                                                                                     |                       |
|---------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| STANDARD TOLERANCE<br>(UNLESS OTHERWISE SPECIFIED)<br>±10% ALL VALUES    ANGULAR<br>X° ± 5° |                          | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL.: (949) 951-8808    FAX: (949) 951-3974 |                       |
|                                                                                             |                          |                                                                                                                                                                     |                       |
| DESIGNED:<br><b>Dan Beckman</b>                                                             | DATE:<br><b>07/27/07</b> | <b>TITLE:</b> STD METAL PANEL MOUNT<br>INDICATORS W/ WIRES<br><br><b>PART NO:</b> MPC3XXWX.X    REVISION:    F                                                      |                       |
| CHECKED:<br><b>T. Yin</b>                                                                   | DATE:<br><b>07/27/07</b> |                                                                                                                                                                     |                       |
|                                                                                             |                          | <b>CAGE CODE :</b> 32559                                                                                                                                            | <b>SHEET # 4 OF 4</b> |
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