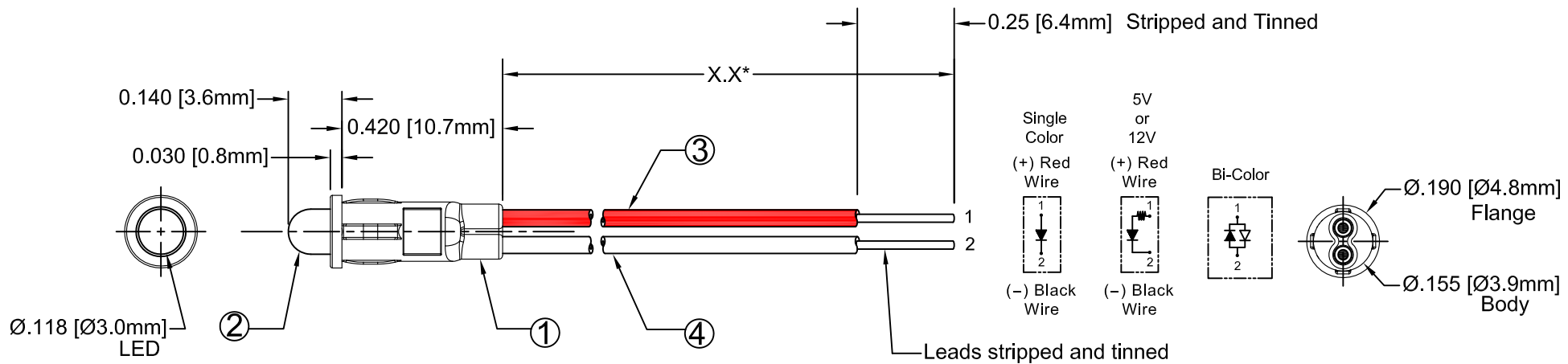


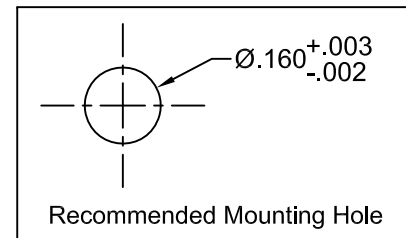
| ITEM | Q'TY | PART NUMBER | PART DESCRIPTION |
|------|------|---------------|---|
| 1 | 1 | PM3-XXX | LED Holder, Panel Mount, Press Fit, (3mm) PM3 (Standard LED), PM3-5V (5V LED), & PM3-12V (12V LED) |
| 2 | 1 | 3XXX-S | T1 (3mm) Shouldered LED, See Following Pages |
| 3 | 1 | BWS24-1061-RD | 24AWG Wire Lead U.L. 1061, Red |
| 4 | 1 | BWS24-1061-BK | 24AWG Wire Lead U.L. 1061, Black |

| REV. | DESCRIPTION | DATE | APPROVED |
|------|---------------------------|----------|----------|
| A | Engineering Release | 02/05/08 | M. C. |
| B | Updated Bi-Color Polarity | 09/09/08 | M. C. |
| C | LED Spec Update | 03/22/10 | T. Y. |
| D | Bi-Color LED Spec Update | 06/24/11 | T. Y. |
| E | Updated LED Offering | 05/01/12 | T. Y. |
| F | Updated BOM Item 1 | 11/12/12 | T. Y. |
| G | Corrected LED P/N Typo | 10/14/13 | G. W. |



EXAMPLE:
PM3RDW6.5*
 Series | LED Color, Lens Appearance | Wire Length in inches

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





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) | | 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974 | | | |
| DECIMALS | ANGULAR | | | | |
| .X ± .1 | X° ± 1° | TITLE: STD PANEL MOUNT INDICATORS W/ WIRES | | | |
| .XX ± .02 | | | | | |
| .XXX ± .010 | | DESIGNED: Raffy Paje | DATE: 02/05/08 | PART NO: PM3XXXWX.X | REVISION: G |
| CHECKED: T. Yin | | DATE: 02/05/08 | CAGE CODE : 32559 | | SHEET # 1 OF 4 |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING. | | | | | |


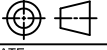
| | | | |
|------|--------------|------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| | SEE SHEET#1. | | |
| | | | |

| LED Assy. No. | Chip | | | Lens Appearance | Electro-Optical Data @ 20mA | | | | Viewing Angle 2 θ ½ (Deg) | LED P/N | |
|---------------|-----------|------------------|---------------|-----------------|-----------------------------|--------|-----|----------|---------------------------------|---------|-----|
| | Material | Peak Wave Length | Emitted Color | | If (mA) | Vf (V) | | Iv (mcd) | | | |
| | | | | | | MAX | TYP | MAX | | | TYP |
| PM3BWCWX.X | GaN/SiC | 430 | BLUE | WATER CLEAR | 25 | 4 | 4.5 | 25 | 30 | 3BWC-S | |
| PM3BWDWX.X | GaN/SiC | 430 | BLUE | DIFFUSED | 25 | 4 | 4.5 | 10 | 40 | 3BWD-S | |
| PM3BWTWX.X | GaN/SiC | 430 | BLUE | TINTED | 25 | 4 | 4.5 | 25 | 30 | 3BWT-S | |
| PM3GCWX.X | GaP/GaP | 568 | GREEN | WATER CLEAR | 30 | 2.1 | 2.8 | 40 | 30 | 3GC-S | |
| PM3GDWX.X | GaP/GaP | 568 | GREEN | DIFFUSED | 30 | 2.1 | 2.8 | 25 | 40 | 3GD-S | |
| PM3GTWX.X | GaP/GaP | 568 | GREEN | TINTED | 30 | 2.1 | 2.8 | 40 | 30 | 3GT-S | |
| PM3PGCWX.X | GaP/GaP | 555 | PURE GREEN | WATER CLEAR | 30 | 2.2 | 2.8 | 10 | 30 | 3PGC-S | |
| PM3PGDWX.X | GaP/GaP | 555 | PURE GREEN | DIFFUSED | 30 | 2.2 | 2.8 | 5 | 40 | 3PGD-S | |
| PM3PGTWX.X | GaP/GaP | 555 | PURE GREEN | TINTED | 30 | 2.2 | 2.8 | 10 | 30 | 3PGT-S | |
| PM3YCWX.X | GaAsP/GaP | 590 | YELLOW | WATER CLEAR | 30 | 2 | 2.8 | 40 | 30 | 3YC-S | |
| PM3YDWX.X | GaAsP/GaP | 590 | YELLOW | DIFFUSED | 30 | 2 | 2.8 | 20 | 40 | 3YD-S | |
| PM3YTWX.X | GaAsP/GaP | 590 | YELLOW | TINTED | 30 | 2 | 2.8 | 40 | 30 | 3YT-S | |
| PM3ACWX.X | GaAsP/GaP | 605 | AMBER | WATER CLEAR | 30 | 2 | 2.8 | 40 | 30 | 3AC-S | |
| PM3ADWX.X | GaAsP/GaP | 605 | AMBER | DIFFUSED | 30 | 2 | 2.8 | 25 | 40 | 3AD-S | |
| PM3ATWX.X | GaAsP/GaP | 605 | AMBER | TINTED | 30 | 2 | 2.8 | 40 | 30 | 3AT-S | |
| PM3HCWX.X | GaAsP/GaP | 625 | HE RED | WATER CLEAR | 30 | 2 | 2.8 | 50 | 30 | 3HC-S | |
| PM3HDWX.X | GaAsP/GaP | 625 | HE RED | DIFFUSED | 30 | 2 | 2.8 | 30 | 40 | 3HD-S | |
| PM3HTWX.X | GaAsP/GaP | 625 | HE RED | TINTED | 30 | 2 | 2.8 | 50 | 30 | 3HT-S | |
| PM3RCWX.X | GaP/GaP | 700 | RED | WATER CLEAR | 20 | 2.1 | 2.8 | 2.5 | 30 | 3RC-S | |
| PM3RDWX.X | GaP/GaP | 700 | RED | DIFFUSED | 20 | 2.1 | 2.8 | 2 | 40 | 3RD-S | |
| PM3RTWX.X | GaP/GaP | 700 | RED | TINTED | 20 | 2.1 | 2.8 | 2.5 | 30 | 3RT-S | |
| PM3BC-A/GWX.X | GaAsP/GaP | 605 | AMBER | DIFFUSED | 30 | 2.0 | 2.8 | 6 | 45 | 3BC-A/G | |
| | GaP/GaP | 568 | GREEN | | 30 | 2.1 | 2.8 | 6 | | | |
| PM3BCWX.X | GaAsP/GaP | 625 | RED | DIFFUSED | 30 | 2.0 | 2.8 | 6 | 45 | 3BC | |
| | GaP/GaP | 568 | GREEN | | 30 | 2.1 | 2.8 | 6 | | | |
| PM3BC-R/YWX.X | GaAsP/GaP | 625 | RED | DIFFUSED | 30 | 2.0 | 2.8 | 6 | 45 | 3BC-R/Y | |
| | GaAsP/GaP | 590 | YELLOW | | 30 | 2.0 | 2.8 | 4 | | | |
| PM3BC-Y/GWX.X | GaAsP/GaP | 590 | YELLOW | DIFFUSED | 30 | 2.0 | 2.8 | 4 | 45 | 3BC-Y/G | |
| | GaP/GaP | 568 | GREEN | | 30 | 2.1 | 2.8 | 6 | | | |

| | | | |
|---|--|--|---|
| STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES | |  BIVAR [®] 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974 | |
| ANGULAR X° ± 5° | | | |
|  | | TITLE: STD PANEL MOUNT INDICATORS W/ WIRES | |
| | | DESIGNED: Raffy Paje | DATE: 02/05/08 |
| CHECKED: T. Yin | | DATE: 02/05/08 | CAGE CODE : 32559 SHEET # 2 OF 4 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 2 θ ½ (Deg) | LED P/N | |
|---------------|----------------|------------------|---------------|-----------------|-----------------------------|--------|-----|----------|---------------------------------|------------|-----|
| | Material | Peak Wave Length | Emitted Color | | If (mA) | Vf (V) | | Iv (mcd) | | | |
| | | | | | | MAX | TYP | MAX | | | TYP |
| PM3UBWCWX.X | GaN/SiC | 470 | BLUE | WATER CLEAR | 30 | 4 | 4.5 | 400 | 30 | 3UBWC-0.6K | |
| PM3SGCWX.X | GaP/GaP | 568 | GREEN | WATER CLEAR | 30 | 2.1 | 2.8 | 50 | 30 | 3SGC-S | |
| PM3SGDWX.X | GaP/GaP | 568 | GREEN | DIFFUSED | 30 | 2.1 | 2.8 | 30 | 40 | 3SGD-S | |
| PM3SGTWX.X | GaP/GaP | 568 | GREEN | TINTED | 30 | 2.1 | 2.8 | 50 | 30 | 3SGT-S | |
| PM3SYCWX.X | GaAsP/GaP | 590 | YELLOW | WATER CLEAR | 30 | 2.0 | 2.8 | 50 | 30 | 3SYC-S | |
| PM3SYDWX.X | GaAsP/GaP | 590 | YELLOW | DIFFUSED | 30 | 2.0 | 2.8 | 30 | 40 | 3SYD-S | |
| PM3SYTWX.X | GaAsP/GaP | 590 | YELLOW | TINTED | 30 | 2.0 | 2.8 | 50 | 30 | 3SYT-S | |
| PM3SACWX.X | AlGaInP | 605 | AMBER | WATER CLEAR | 30 | 1.8 | 2.4 | 300 | 30 | 3SAC-S | |
| PM3SADWX.X | AlGaInP | 605 | AMBER | DIFFUSED | 30 | 1.8 | 2.4 | 100 | 40 | 3SAD-S | |
| PM3SATWX.X | AlGaInP | 605 | AMBER | TINTED | 30 | 1.8 | 2.4 | 300 | 30 | 3SAT-S | |
| PM3SRCWX.X | GaAlAs/GaAs | 645 | SUPER RED | WATER CLEAR | 30 | 1.7 | 2.4 | 60 | 30 | 3SRC-S | |
| PM3SRDWX.X | GaAlAs/GaAs | 645 | SUPER RED | DIFFUSED | 30 | 1.7 | 2.4 | 40 | 40 | 3SRD-S | |
| PM3SRTWX.X | GaAlAs/GaAs | 645 | SUPER RED | TINTED | 30 | 1.7 | 2.4 | 60 | 30 | 3SRT-S | |
| PM3UGCWX.X | AlGaInP | 570 | GREEN | WATER CLEAR | 30 | 2.1 | 2.4 | 200 | 30 | 3UGC-S | |
| PM3SUGCWX.X | AlGaInP | 570 | GREEN | WATER CLEAR | 30 | 2.1 | 2.4 | 300 | 30 | 3SUGC-S | |
| PM3UYCWX.X | AlGaInP | 590 | YELLOW | WATER CLEAR | 30 | 2.0 | 2.4 | 300 | 30 | 3UYC-S | |
| PM3SUYCWX.X | AlGaInP | 590 | YELLOW | WATER CLEAR | 30 | 2.0 | 2.4 | 400 | 30 | 3SUYC-S | |
| PM3UUYCWX.X | AlGaInP | 590 | YELLOW | WATER CLEAR | 30 | 2.0 | 2.4 | 600 | 30 | 3UUYC-S | |
| PM3UOCWX.X | AlGaInP | 625 | ORANGE | WATER CLEAR | 30 | 1.8 | 2.4 | 300 | 30 | 3UOC-S | |
| PM3SUOCWX.X | AlGaInP | 625 | ORANGE | WATER CLEAR | 30 | 1.8 | 2.4 | 400 | 30 | 3SUOC-S | |
| PM3URCWX.X | GaAlAs/GaAs | 645 | RED | WATER CLEAR | 30 | 1.7 | 2.4 | 200 | 30 | 3URC-S | |
| PM3SURCWX.X | AlGaInP | 640 | RED | WATER CLEAR | 30 | 1.8 | 2.4 | 200 | 30 | 3SURC-S | |
| PM3UWCWX.X | InGaN/Sapphire | 6500K | WHITE | WATER CLEAR | 30 | 3.4 | 3.8 | 1000 | 30 | 3UWC1.030C | |

| | | | |
|---|--|--|---|
| STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES | |  BIVAR [®] 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974 | |
| ANGULAR X° ± 5° | | | |
|  | | TITLE: STD PANEL MOUNT INDICATORS W/ WIRES | |
| | | DESIGNED: Raffy Paje | DATE: 02/05/08 |
| CHECKED: T. Yin | | DATE: 02/05/08 | CAGE CODE : 32559 SHEET # 3 OF 4 CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING. |

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

| LED Assy. No. | Chip | | | Lens Appearance | Absolute Max. Ratings | | | Electro-Optical Data @ 2mA | | | Viewing Angle 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 | | |
| PM3BWDLWX.X | GaN/siC | 430 | BLUE | DIFFUSED | 20 | 7 | - | 3.8 | 4.2 | 2.5 | 40 | 3BWDL-S |
| PM3GDLWX.X | GaP/GaP | 568 | GREEN | DIFFUSED | 10 | 7 | - | 2.1 | 2.6 | 2.0 | 40 | 3GDL-S |
| PM3PGDLWX.X | GaP/GaP | 555 | PURE GREEN | DIFFUSED | 10 | 7 | - | 2.1 | 2.6 | 0.2 | 40 | 3PGDL-S |
| PM3YDLWX.X | GaAsP/GaP | 590 | YELLOW | DIFFUSED | 10 | 7 | - | 2.0 | 2.6 | 2.0 | 40 | 3YDL-S |
| PM3ADLWX.X | GaAsP/GaP | 605 | AMBER | DIFFUSED | 10 | 7 | - | 2.0 | 2.6 | 4.0 | 40 | 3ADL-S |
| PM3HDLWX.X | GaAsP/GaP | 625 | HE RED | DIFFUSED | 10 | 7 | - | 2.0 | 2.6 | 2.5 | 40 | 3HDL-S |
| PM3RDLWX.X | GaP/GaP | 700 | RED | DIFFUSED | 10 | 7 | - | 2.1 | 2.6 | 0.5 | 40 | 3RDL-S |
| PM3SRDLWX.X | GaAlAs/GaAs | 645 | RED | DIFFUSED | 10 | 7 | - | 2.0 | - | 8.0 | 40 | 3SRDL-S |

| Assembly P/N | Peak Wave Length λp(nm) | Emitted Color | Lens Appearance | Electro-Optical Data | | | | Viewing Angle 2θ 1/2 (Deg) | LED P/N |
|----------------|-------------------------|---------------|-----------------|----------------------|--------|-----|----------|----------------------------|----------|
| | | | | If (mA) | Vf (V) | | Iv (mcd) | | |
| | | | | | MAX | TYP | MAX | | |
| 5 Volt | | | | Data @ 5V | | | | | |
| PM3BWD5VWX.X | 430 | BLUE | DIFFUSED | - | - | 5 | 10 | 35 | 3BWD5V-S |
| PM3GC5VWX.X | 568 | GREEN | WATER CLEAR | - | - | 5 | 40 | 20 | 3GC5V-S |
| PM3GD5VWX.X | 568 | GREEN | DIFFUSED | - | - | 5 | 25 | 35 | 3GD5V-S |
| PM3GT5VWX.X | 568 | GREEN | TINTED | - | - | 5 | 40 | 20 | 3GT5V-S |
| PM3AD5VWX.X | 605 | AMBER | DIFFUSED | - | - | 5 | 25 | 35 | 3AD5V-S |
| PM3HD5VWX.X | 625 | HE RED | DIFFUSED | - | - | 5 | 30 | 35 | 3HD5V-S |
| PM3RD5VWX.X | 700 | RED | DIFFUSED | - | - | 5 | 2 | 35 | 3RD5V-S |
| PM3YD5VWX.X | 590 | YELLOW | DIFFUSED | - | - | 5 | 20 | 35 | 3YD5V-S |
| 12 Volt | | | | Data @ 12V | | | | | |
| PM3GC12VWX.X | 568 | GREEN | WATER CLEAR | - | - | 12 | 40 | 20 | 3GC12V-S |
| PM3GD12VWX.X | 568 | GREEN | DIFFUSED | - | - | 12 | 25 | 35 | 3GD12V-S |
| PM3HC12VWX.X | 625 | HE RED | WATER CLEAR | - | - | 12 | 50 | 20 | 3HC12V-S |
| PM3HD12VWX.X | 625 | HE RED | DIFFUSED | - | - | 12 | 30 | 35 | 3HD12V-S |
| PM3RC12VWX.X | 700 | RED | WATER CLEAR | - | - | 12 | 6 | 20 | 3RC12V-S |
| PM3RD12VWX.X | 700 | RED | DIFFUSED | - | - | 12 | 2 | 35 | 3RD12V-S |
| PM3YC12VWX.X | 590 | YELLOW | WATER CLEAR | - | - | 12 | 40 | 20 | 3YC12V-S |
| PM3YD12VWX.X | 590 | YELLOW | DIFFUSED | - | - | 12 | 25 | 35 | 3YD12V-S |

| | | | |
|---|--------------------------|--|-----------------------|
| STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES | |  BIVAR [®] 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974 | |
| ANGULAR X° ± 5° | | | |
|  | | TITLE: STD PANEL MOUNT INDICATORS W/ WIRES | |
| DESIGNED: Raffy Paje | DATE: 02/05/08 | PART NO: PM3XXXWX.X | REVISION: G |
| CHECKED: T. Yin | DATE: 02/05/08 | CAGE CODE : 32559 | SHEET # 4 OF 4 |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING. | | | |