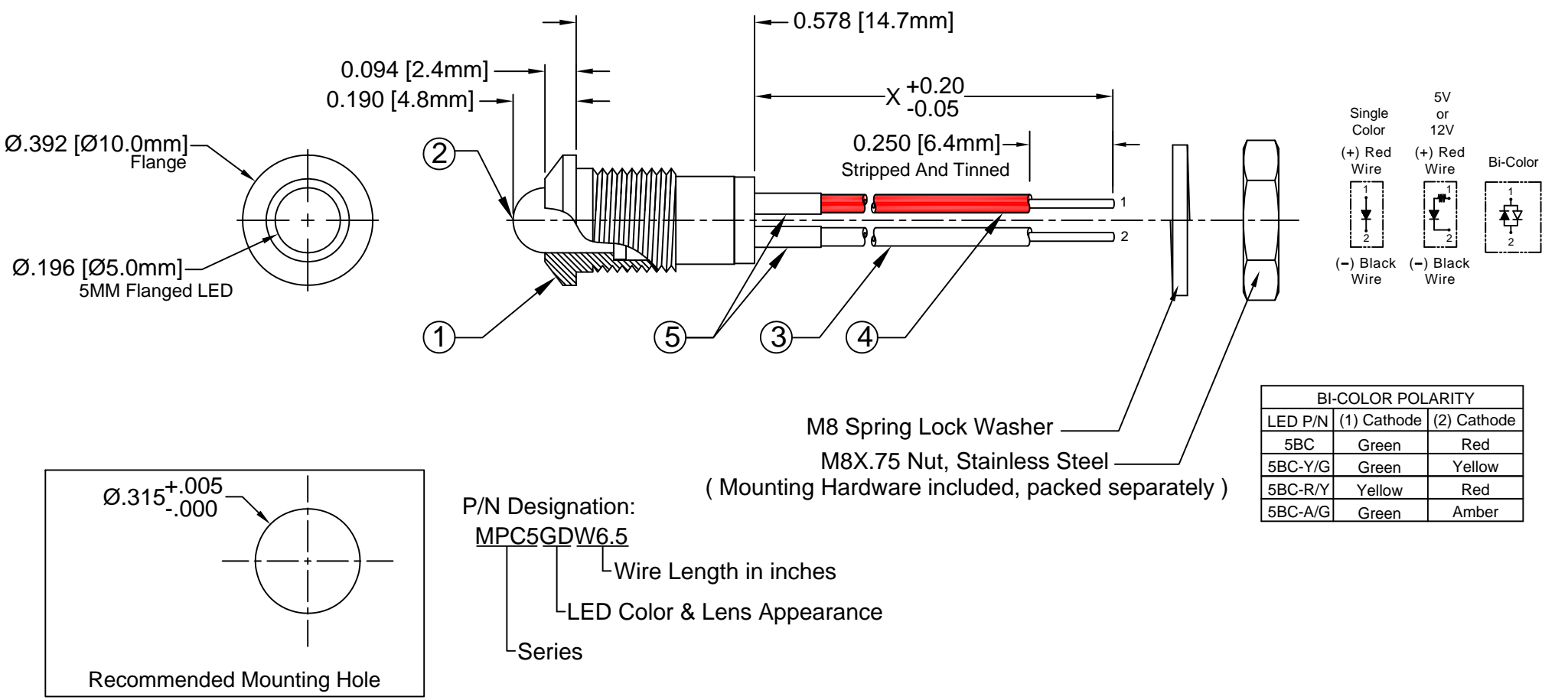


| ITEM | Q'TY | PART NUMBER | PART DESCRIPTION |
|------|------|---------------|---------------------------------------|
| 1 | 1 | MPC5 | Chrome Panel Mount Holder, 5mm |
| 2 | 1 | 5XX-F | T-1 3/4 (5mm) Flanged LED, P.2. |
| 3 | 1 | BWS24-1007-BK | 24AWG Wire Lead U.L. 1007, Black |
| 4 | 1 | BWS24-1007-RD | 24AWG Wire Lead U.L. 1007, Red |
| 5 | 2 | BST200-BK | Shrink Tubing, Black, 0.5" Cut Length |

| REV. | DESCRIPTION | DATE | APPROVED |
|------|---|----------|----------|
| C | Shrink Tubing Update. Change Length to 0.5" | 11/12/07 | M. C. |
| D | Added MPC5WC7.015WX.X Specs. | 06/03/08 | M. C. |
| E | Added MPC5XX5VWX.X Specs. and Updated .578 Dim. | 06/24/08 | M. C. |
| F | Added MPC5SRD5VWX.X Specs. | 06/27/08 | M. C. |
| G | Added MPC5SGDWX.X Specs and Removed 5V Specs. | 10/06/09 | T. Y. |
| H | Updated LED offering | 05/03/12 | T. Y. |
| J | Updated LED Optical Characteristics | 09/15/15 | J. C. |





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 METAL PANEL MOUNT INDICATORS W/ WIRES | |
| .XX ± .02 | | | |
| .XXX ± .010 | | DESIGNED: David Green DATE: 01/31/05 CHECKED: T. Yin DATE: 01/31/05 | |
| | | PART NO: MPC5XXWX.X CAGE CODE : 32559 REVISION: J 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 | | |
| MPC5BWCWX.X | GaN/SiC | 430 | BLUE | WATER CLEAR | 25 | 4 | 4.5 | 25 | 20 | 5BWC-F |
| MPC5BWDWX.X | GaN/SiC | 430 | BLUE | DIFFUSED | 25 | 4 | 4.5 | 15 | 45 | 5BWD-F |
| MPC5BWTWX.X | GaN/SiC | 430 | BLUE | TINTED | 25 | 4 | 4.5 | 30 | 20 | 5BWT-F |
| MPC5GCWX.X | GaP/GaP | 568 | GREEN | WATER CLEAR | 30 | 2.1 | 2.8 | 40 | 35 | 5GC-F |
| MPC5GDWX.X | GaP/GaP | 568 | GREEN | DIFFUSED | 30 | 2.1 | 2.8 | 25 | 45 | 5GD-F |
| MPC5GTWX.X | GaP/GaP | 568 | GREEN | TINTED | 30 | 2.1 | 2.8 | 40 | 35 | 5GT-F |
| MPC5UGCWX.X | AlGaInP | 570 | GREEN | WATER CLEAR | 30 | 2.1 | 2.4 | 600 | 35 | 5UGC-F |
| MPC5PGCWX.X | GaP/GaP | 555 | PURE GREEN | WATER CLEAR | 30 | 2.2 | 2.8 | 10 | 35 | 5PGC-F |
| MPC5PGDWX.X | GaP/GaP | 555 | PURE GREEN | DIFFUSED | 30 | 2.2 | 2.8 | 10 | 45 | 5PGD-F |
| MPC5PGTWX.X | GaP/GaP | 555 | PURE GREEN | TINTED | 30 | 2.2 | 2.8 | 10 | 35 | 5PGT-F |
| MPC5YCWX.X | GaAsP/GaP | 590 | YELLOW | WATER CLEAR | 30 | 2 | 2.8 | 40 | 35 | 5YC-F |
| MPC5YDWX.X | GaAsP/GaP | 590 | YELLOW | DIFFUSED | 30 | 2 | 2.8 | 25 | 45 | 5YD-F |
| MPC5YTWX.X | GaAsP/GaP | 590 | YELLOW | TINTED | 30 | 2 | 2.8 | 40 | 35 | 5YT-F |
| MPC5ACWX.X | GaAsP/GaP | 605 | AMBER | WATER CLEAR | 30 | 2 | 2.8 | 40 | 35 | 5AC-F |
| MPC5ADWX.X | GaAsP/GaP | 605 | AMBER | DIFFUSED | 30 | 2 | 2.8 | 25 | 45 | 5AD-F |
| MPC5ATWX.X | GaAsP/GaP | 605 | AMBER | TINTED | 30 | 2 | 2.8 | 40 | 35 | 5AT-F |
| MPC5HCWX.X | GaAsP/GaP | 625 | HE RED | WATER CLEAR | 30 | 2 | 2.8 | 40 | 35 | 5HC-F |
| MPC5HDWX.X | GaAsP/GaP | 625 | HE RED | DIFFUSED | 30 | 2 | 2.8 | 25 | 45 | 5HD-F |
| MPC5HTWX.X | GaAsP/GaP | 625 | HE RED | TINTED | 30 | 2 | 2.8 | 40 | 35 | 5HT-F |
| MPC5RCWX.X | GaP/GaP | 700 | RED | WATER CLEAR | 20 | 2.1 | 2.8 | 2 | 35 | 5RC-F |
| MPC5RDWX.X | GaP/GaP | 700 | RED | DIFFUSED | 20 | 2.1 | 2.8 | 2 | 45 | 5RD-F |
| MPC5RTWX.X | GaP/GaP | 700 | RED | TINTED | 20 | 2.1 | 2.8 | 2 | 35 | 5RT-F |
| MPC5BCWX.X-A/G | GaAsP/GaP | 605 | AMBER | WHITE DIFFUSED | 30 | 2.0 | 2.8 | 6 | 45 | 5BC-A/G-F |
| | GaP/GaP | 568 | GREEN | | 30 | 2.1 | 2.8 | 6 | | |
| MPC5BCWX.X | GaAsP/GaP | 625 | RED | WHITE DIFFUSED | 30 | 2.0 | 2.8 | 6 | 45 | 5BC-F |
| | GaP/GaP | 568 | GREEN | | 30 | 2.1 | 2.8 | 8 | | |
| MPC5BCWX.X-R/Y | GaAsP/GaP | 625 | RED | WHITE DIFFUSED | 30 | 2.0 | 2.8 | 6 | 45 | 5BC-R/Y-F |
| | GaAsP/GaP | 590 | YELLOW | | 30 | 2.0 | 2.8 | 5 | | |
| MPC5BCWX.X-Y/G | GaAsP/GaP | 590 | YELLOW | WHITE DIFFUSED | 30 | 2.0 | 2.8 | 5 | 45 | 5BC-Y/G-F |
| | GaP/GaP | 568 | GREEN | | 30 | 2.1 | 2.8 | 8 | | |

| | | | | |
|---|--------------------------|--|-----------------------|---|
| STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES <u>ANGULAR</u> X° ± 5° | |  4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974 | | |
|  | | | | TITLE: STD METAL PANEL MOUNT INDICATORS W/ WIRES |
| DESIGNED: David Green | DATE: 01/31/05 | PART NO: MPC5XXWX.X | | REVISION: J |
| CHECKED: T. Yin | DATE: 01/31/05 | CAGE CODE : 32559 | SHEET # 2 OF 4 | |
| CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING. | | | | |

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


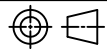
| LED Assy. No. | Chip | | | Lens Appearance | Electro-Optical Data @ 20mA | | | | Viewing Angle 2θ ½ (Deg) | LED P/N |
|---------------|-------------|------------------|---------------|-----------------|-----------------------------|--------|-----|----------|--------------------------|------------|
| | Material | Peak Wave Length | Emitted Color | | If (mA) | Vf (V) | | Iv (mcd) | | |
| | | | | | MAX | TYP | MAX | TYP | | |
| MPC5UBWCWX.X | InGaN/SiC | 468 | BLUE | WATER CLEAR | 50 | 3.2 | 3.6 | 8000 | 15 | 5BWC2.515F |
| MPC5SGCWX.X | GaP/GaP | 568 | GREEN | WATER CLEAR | 30 | 2.1 | 2.8 | 60 | 35 | 5SGC-F |
| MPC5SGDWX.X | GaP/GaP | 568 | GREEN | DIFFUSED | 30 | 2.1 | 2.8 | 50 | 40 | 5SGD-F |
| MPC5SGTWX.X | GaP/GaP | 568 | GREEN | TINTED | 30 | 2.1 | 2.8 | 60 | 35 | 5SGT-F |
| MPC5SYCWX.X | GaAsP/GaP | 590 | YELLOW | WATER CLEAR | 30 | 2.0 | 2.8 | 600 | 35 | 5SYC-F |
| MPC5SYDWX.X | GaAsP/GaP | 590 | YELLOW | DIFFUSED | 30 | 2.0 | 2.8 | 150 | 40 | 5SYD-F |
| MPC5SYTWX.X | GaAsP/GaP | 590 | YELLOW | TINTED | 30 | 2.0 | 2.8 | 600 | 35 | 5SYT-F |
| MPC5SRCWX.X | GaAlAs/GaAs | 645 | SUPER RED | WATER CLEAR | 30 | 1.7 | 2.4 | 60 | 35 | 5SRC-F |
| MPC5SRDWX.X | GaAlAs/GaAs | 645 | SUPER RED | DIFFUSED | 30 | 1.7 | 2.4 | 40 | 40 | 5SRD-F |
| MPC5SRTWX.X | GaAlAs/GaAs | 645 | SUPER RED | TINTED | 30 | 1.7 | 2.4 | 60 | 35 | 5SRT-F |
| MPC5UGCWX.X | AlGaInP | 570 | GREEN | WATER CLEAR | 30 | 2.1 | 2.4 | 400 | 35 | 5UGC-F |
| MPC5UGCWX.X | AlGaInP | 570 | GREEN | WATER CLEAR | 30 | 2.1 | 2.4 | 300 | 35 | 5SUGC-F |
| MPC5UYCWX.X | AlGaInP | 590 | YELLOW | WATER CLEAR | 30 | 2.0 | 2.4 | 1000 | 30 | 5UYC-F |
| MPC5SUYCWX.X | AlGaInP | 590 | YELLOW | WATER CLEAR | 30 | 2.0 | 2.4 | 700 | 35 | 5SUYC-F |
| MPC5UUYCWX.X | AlGaInP | 590 | YELLOW | WATER CLEAR | 30 | 2.0 | 2.4 | 500 | 35 | 5UUYC-F |
| MPC5UOCWX.X | AlGaInP | 625 | ORANGE | WATER CLEAR | 30 | 1.8 | 2.4 | 1400 | 35 | 5UOC-F |
| MPC5UOCWX.X | AlGaInP | 625 | ORANGE | WATER CLEAR | 30 | 1.8 | 2.4 | 1300 | 35 | 5SUOC-F |
| MPC5URCWX.X | GaAlAs/GaAs | 645 | RED | WATER CLEAR | 30 | 1.7 | 2.4 | 400 | 30 | 5URC-F |
| MPC5SURCWX.X | AlGaInP | 640 | RED | WATER CLEAR | 30 | 1.8 | 2.4 | 500 | 35 | 5SURC-F |
| MPC5UWCWX.X | InGaN/SiC | 6500K | WHITE | WATER CLEAR | 100 | 3.5 | 4.2 | 2700 | 30 | 5WC2.730F |

| | | | |
|---|--------------------------|---|------------------------------|
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|  | | | |
| DESIGNED: David Green | DATE: 01/31/05 | PART NO: MPC5XXWX.X | |
| CHECKED: T. Yin | DATE: 01/31/05 | CAGE CODE : 32559 | REVISION: J |
| | | SHEET # 3 OF 4 | |
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|------|---------------|------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| | SEE SHEET #1. | | |

| LED Assy. No. | Peak Wave Length λ_p (nm) | Emitted Color | Lens Appearance | Max. Rating | Electro-Optical Data @ 2mA | | | | Viewing Angle $2\theta_{1/2}$ (Deg) | LED P/N |
|---------------|--------------------------------------|---------------|-----------------|-------------|----------------------------|-----|-------------|-----|---|---------|
| | | | | If (mA) | Vf (V) | | Iv (mcd) | | | |
| | | | | | MAX | TYP | MAX | TYP | | |
| MPC5BWDLWX.X | 430 | BLUE | DIFFUSED | 7 | 3.8 | 4.2 | 4 | 40 | 5BWDL-F | |
| MPC5PGDLWX.X | 555 | PURE GREEN | DIFFUSED | 7 | 2.1 | 2.6 | 1 | 40 | 5PGDL-F | |
| MPC5GDLWX.X | 568 | GREEN | DIFFUSED | 7 | 2.1 | 2.6 | 4 | 40 | 5GDL-F | |
| MPC5YDLWX.X | 590 | YELLOW | DIFFUSED | 7 | 2.0 | 2.6 | 4 | 40 | 5YDL-F | |
| MPC5ADLWX.X | 605 | AMBER | DIFFUSED | 7 | 2.0 | 2.6 | 4 | 40 | 5ADL-F | |
| MPC5HDLWX.X | 625 | HE RED | DIFFUSED | 7 | 2.0 | 2.6 | 5 | 40 | 5HDL-F | |
| MPC5SRDLWX.X | 645 | SUPER RED | DIFFUSED | 7 | 1.7 | 2.3 | 6 | 40 | 5SRDL-F | |

| LED Assy. No. | Peak Wave Length λ_p (nm) | Emitted Color | Lens Appearance | Electro-Optical Data | | | | Viewing Angle $2\theta_{1/2}$ (Deg) | LED P/N |
|----------------|--------------------------------------|---------------|-----------------|----------------------|-----------|-----|-------------|---|----------|
| | | | | If (mA) | Vf (V) | | Iv (mcd) | | |
| | | | | | MAX | TYP | | | |
| 5 Volt | | | | Data @ 5V | | | | | |
| MPC5BWD5VWX.X | BLUE | 430 | DIFFUSED | - | - | 5 | 15 | 40 | 5BWD5V-F |
| MPC5GC5VWX.X | GREEN | 568 | WATER CLEAR | - | - | 5 | 40 | 40 | 5GC5V-F |
| MPC5GD5VWX.X | GREEN | 568 | DIFFUSED | - | - | 5 | 25 | 40 | 5GD5V-F |
| MPC5GT5VWX.X | GREEN | 568 | TINTED | - | - | 5 | 40 | 40 | 5GT5V-F |
| MPC5AD5VWX.X | AMBER | 605 | DIFFUSED | - | - | 5 | 25 | 40 | 5AD5V-F |
| MPC5HD5VWX.X | HE RED | 625 | DIFFUSED | - | - | 5 | 30 | 40 | 5HD5V-F |
| MPC5RD5VWX.X | RED | 700 | DIFFUSED | - | - | 5 | 1.5 | 40 | 5RD5V-F |
| MPC5YD5VWX.X | YELLOW | 590 | DIFFUSED | - | - | 5 | 25 | 40 | 5YD5V-F |
| 12 Volt | | | | Data @ 12V | | | | | |
| MPC5GC12VWX.X | GREEN | 568 | WATER CLEAR | - | - | 12 | 40 | 35 | 5GC12V-F |
| MPC5GD12VWX.X | GREEN | 568 | DIFFUSED | - | - | 12 | 25 | 40 | 5GD12V-F |
| MPC5HC12VWX.X | HE RED | 625 | WATER CLEAR | - | - | 12 | 50 | 35 | 5HC12V-F |
| MPC5HD12VWX.X | HE RED | 625 | DIFFUSED | - | - | 12 | 30 | 40 | 5HD12V-F |
| MPC5RC12VWX.X | RED | 700 | WATER CLEAR | - | - | 12 | 2 | 35 | 5RC12V-F |
| MPC5RD12VWX.X | RED | 700 | DIFFUSED | - | - | 12 | 1.5 | 40 | 5RD12V-F |
| MPC5YC12VWX.X | YELLOW | 590 | WATER CLEAR | - | - | 12 | 25 | 35 | 5YC12V-F |
| MPC5YD12VWX.X | YELLOW | 590 | DIFFUSED | - | - | 12 | 20 | 40 | 5YD12V-F |

| | | | |
|--|--|---|--|
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| X° \pm 5° | | | |
|  | | TITLE: STD METAL PANEL MOUNT INDICATORS W/ WIRES | |
| | | DESIGNED: David Green | DATE: 01/31/05 |
| CHECKED: T. Yin | | DATE: 01/31/05 | CAGE CODE : 32559 SHEET # 4 OF 4 |
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