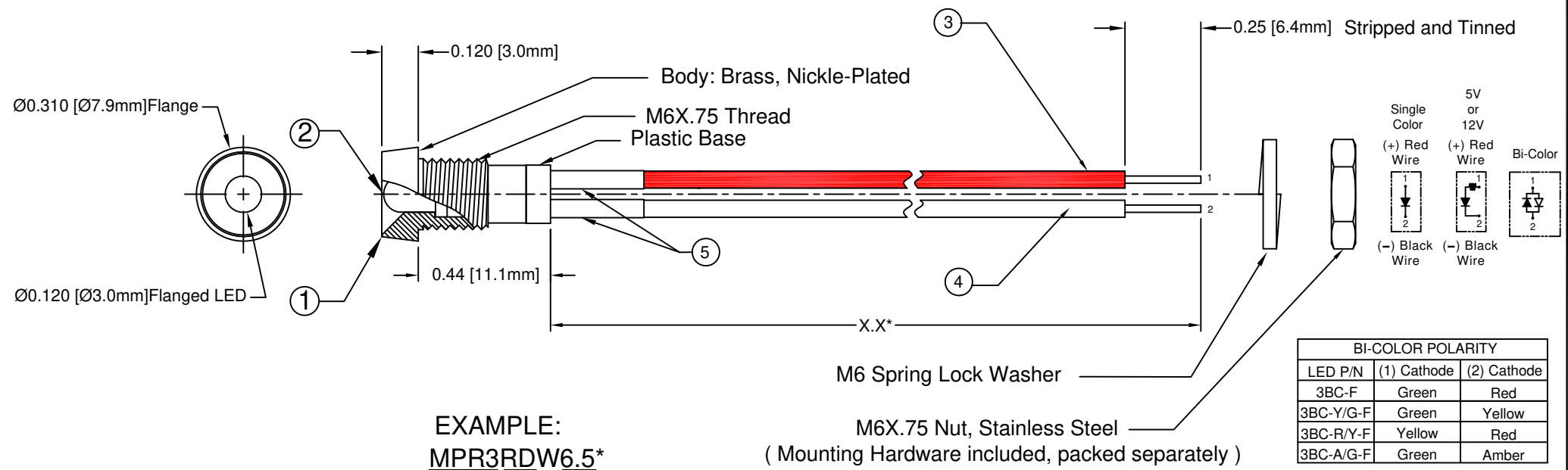


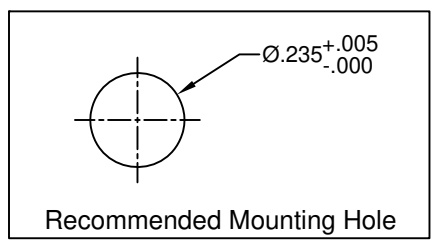
ITEM	QTY	PART NUMBER	PART DESCRIPTION
1	1	MPR3	Chrome Panel Mount Holder, 3mm
2	1	3XXX-F	T-1 (3mm) Flanged LED, See Following Pages
3	1	BWS24AWG-RD	24AWG Wire Lead U.L. 1007, Red
4	1	BWS24AWG-BK	24AWG Wire Lead U.L. 1007, Black
5	2	BST200-BK	Shrink Tubing, Black, .5" Cut Length

REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Release.	07/27/07	M. C.
B	Shrink Tubing Length Update.	03/23/09	T. Y.
C	Updated LED offering	05/03/12	T. Y.
D	Updated Bi-Color Polarity Table	12/18/12	T. Y.
E	Updated Typo On Page 4	06/12/14	J. C.
F	Updated LED Optical Characteristics	09/15/15	J. C.



**EXAMPLE:**  
**MPR3RDW6.5\***

Series | LED Color, Lens Appearance | Wire Length in inches




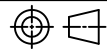
### ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

- 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

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DECIMALS	ANGULAR		
.X ± .1	X° ± 1°		
.XX ± .02		 <b>TITLE:</b> STD METAL PANEL MOUNT INDICATORS W/ WIRES	
.XXX ± .010			
DESIGNED: <b>Dan Beckman</b>	DATE: <b>07/27/07</b>	<b>PART NO:</b> MPR3XXWX.X	REVISION: <b>F</b>
CHECKED: <b>T. Yin</b>	DATE: <b>07/27/07</b>		<b>CAGE CODE :</b> 32559
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
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		
MPR3BWCWX.X	GaN/SiC	430	BLUE	WATER CLEAR	25	4	4.5	15	20	3BWC-F
MPR3BWDWX.X	GaN/SiC	430	BLUE	DIFFUSED	25	4	4.5	10	35	3BWD-F
MPR3BWTWX.X	GaN/SiC	430	BLUE	TINTED	25	4	4.5	15	20	3BWT-F
MPR3GCWX.X	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	40	20	3GC-F
MPR3GDWX.X	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	25	35	3GD-F
MPR3GTWX.X	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	40	20	3GT-F
MPR3PGCWX.X	GaP/GaP	555	PURE GREEN	WATER CLEAR	30	2.2	2.8	10	20	3PGC-F
MPR3PGDWX.X	GaP/GaP	555	PURE GREEN	DIFFUSED	30	2.2	2.8	5	35	3PGD-F
MPR3PGTWX.X	GaP/GaP	555	PURE GREEN	TINTED	30	2.2	2.8	10	20	3PGT-F
MPR3YCWX.X	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2	2.8	40	20	3YC-F
MPR3YDWX.X	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2	2.8	20	35	3YD-F
MPR3YTWX.X	GaAsP/GaP	590	YELLOW	TINTED	30	2	2.8	40	20	3YT-F
MPR3ACWX.X	GaAsP/GaP	605	AMBER	WATER CLEAR	30	2	2.8	40	20	3AC-F
MPR3ADWX.X	GaAsP/GaP	605	AMBER	DIFFUSED	30	2	2.8	25	35	3AD-F
MPR3ATWX.X	GaAsP/GaP	605	AMBER	TINTED	30	2	2.8	40	20	3AT-F
MPR3HCWX.X	GaAsP/GaP	625	HE RED	WATER CLEAR	30	2	2.8	50	20	3HC-F
MPR3HDWX.X	GaAsP/GaP	625	HE RED	DIFFUSED	30	2	2.8	30	35	3HD-F
MPR3HTWX.X	GaAsP/GaP	625	HE RED	TINTED	30	2	2.8	50	20	3HT-F
MPR3RCWX.X	GaP/GaP	700	RED	WATER CLEAR	20	2.1	2.8	2.5	35	3RC-F
MPR3RDWX.X	GaP/GaP	700	RED	DIFFUSED	20	2.1	2.8	2	20	3RD-F
MPR3RTWX.X	GaP/GaP	700	RED	TINTED	20	2.1	2.8	2.5	20	3RT-F
MPR3BCWX.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		
MPR3BCWX.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		
MPR3BCWX.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		
MPR3BCWX.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 (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES    ANGULAR		 <b>BIVAR</b> <sup>®</sup> 4 THOMAS, IRVINE, CA. 92618 TEL.: (949) 951-8808    FAX: (949) 951-3974	
			
DESIGNED: <b>Dan Beckman</b>	DATE: <b>07/27/07</b>	PART NO: <b>MPR3XXWX.X</b>	REVISION: <b>F</b>
CHECKED: <b>T. Yin</b>	DATE: <b>07/27/07</b>	CAGE CODE : <b>32559</b>	SHEET # <b>2 OF 4</b>
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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1.		


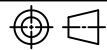
LED Assy. No.	Chip			Lens Appearance	Electro-Optical Data @ 20mA				Viewing Angle 2 θ ½ (Deg)	LED P/N
	Material	Peak Wave Length	Emitted Color		If (mA)	Vf (V)		Iv (mcd)		
					MAX	TYP	MAX	TYP		
MPR3UBWCWX.X	GaN/SiC	470	BLUE	WATER CLEAR	30	4	4.5	400	30	3UBWC-0.6K-F
MPR3SGCWX.X	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	50	20	3SGC-F
MPR3SGDWX.X	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	30	35	3SGD-F
MPR3SGTWX.X	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	50	20	3SGT-F
MPR3SYCWX.X	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2.0	2.8	50	20	3SYC-F
MPR3SYDWX.X	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2.0	2.8	30	35	3SYD-F
MPR3SYTWX.X	GaAsP/GaP	590	YELLOW	TINTED	30	2.0	2.8	50	20	3SYT-F
MPR3SACWX.X	AlGaInP	605	AMBER	WATER CLEAR	30	1.8	2.4	300	20	3SAC-F
MPR3SADWX.X	AlGaInP	605	AMBER	DIFFUSED	30	1.8	2.4	100	35	3SAD-F
MPR3SATWX.X	AlGaInP	605	AMBER	TINTED	30	1.8	2.4	300	20	3SAT-F
MPR3SRCWX.X	GaAlAs/GaAs	645	SUPER RED	WATER CLEAR	30	1.7	2.4	60	20	3SRC-F
MPR3SRDWX.X	GaAlAs/GaAs	645	SUPER RED	DIFFUSED	30	1.7	2.4	40	35	3SRD-F
MPR3SRTWX.X	GaAlAs/GaAs	645	SUPER RED	TINTED	30	1.7	2.4	60	20	3SRT-F
MPR3UGCWX.X	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	200	20	3UGC-F
MPR3SUGCWX.X	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	300	35	3SUGC-F
MPR3UYCWX.X	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	300	20	3UYC-F
MPR3SUYCWX.X	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	400	20	3SUYC-F
MPR3UUYCWX.X	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	600	35	3UUYC-F
MPR3UOCWX.X	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	300	20	3UOC-F
MPR3SUOCWX.X	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	400	20	3SUOC-F
MPR3URCWX.X	GaAlAs/GaAs	645	RED	WATER CLEAR	30	1.7	2.4	200	35	3URC-F
MPR3SURCWX.X	AlGaInP	640	RED	WATER CLEAR	30	1.8	2.4	200	20	3SURC-F
MPR3UWCWX.X	InGaN/Sapphire	6500K	WHITE	WATER CLEAR	30	3.2	3.6	6000	35	3UWC1.035C-F

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DESIGNED: <b>Dan Beckman</b>	DATE: <b>07/27/07</b>	<b>PART NO:</b> MPR3XXWX.X	REVISION: <b>F</b>
CHECKED: <b>T. Yin</b>	DATE: <b>07/27/07</b>	<b>CAGE CODE : 32559</b>	<b>SHEET # 3 OF 4</b>
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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1.		

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		
MPR3BWDLWX.X	GaN/siC	430	BLUE	DIFFUSED	20	7	-	3.8	4.2	2.5	35	3BWDL-F
MPR3GDLWX.X	GaP/GaP	568	GREEN	DIFFUSED	10	7	-	2.1	2.6	4.0	35	3GDL-F
MPR3PGDLWX.X	GaP/GaP	555	PURE GREEN	DIFFUSED	10	7	-	2.1	2.6	0.2	35	3PGDL-F
MPR3YDLWX.X	GaAsP/GaP	590	YELLOW	DIFFUSED	10	7	-	2.0	2.6	2.0	35	3YDL-F
MPR3ADLWX.X	GaAsP/GaP	605	AMBER	DIFFUSED	10	7	-	2.0	2.6	4.0	35	3ADL-F
MPR3HDLWX.X	GaAsP/GaP	625	HE RED	DIFFUSED	10	7	-	2.0	2.6	2.5	35	3HDL-F
MPR3RDLWX.X	GaP/GaP	700	RED	DIFFUSED	10	7	-	2.1	2.6	0.5	35	3RDL-F
MPR3SRDLWX.X	GaAIAs/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 θ ½ (Deg)	LED P/N
				If (mA)	Vf (V)		Iv (mcd)		
					MAX	TYP			
<b>5 Volt</b>				<b>Data @ 5V</b>					
MPR3BWD5VWX.X	BLUE	430	DIFFUSED	-	-	5	10	35	3BWD5V-F
MPR3GC5VWX.X	GREEN	568	WATER CLEAR	-	-	5	40	20	3GC5V-F
MPR3GD5VWX.X	GREEN	568	DIFFUSED	-	-	5	25	35	3GD5V-F
MPR3GT5VWX.X	GREEN	568	TINTED	-	-	5	40	20	3GT5V-F
MPR3AD5VWX.X	AMBER	605	DIFFUSED	-	-	5	25	35	3AD5V-F
MPR3HD5VWX.X	HE RED	625	DIFFUSED	-	-	5	30	35	3HD5V-F
MPR3RD5VWX.X	RED	700	DIFFUSED	-	-	5	2	35	3RD5V-F
MPR3YD5VWX.X	YELLOW	590	DIFFUSED	-	-	5	20	35	3YD5V-F
<b>12 Volt</b>				<b>Data @ 12V</b>					
MPR3GC12VWX.X	GREEN	568	WATER CLEAR	-	-	12	40	20	3GC12V-F
MPR3GD12VWX.X	GREEN	568	DIFFUSED	-	-	12	25	35	3GD12V-F
MPR3HC12VWX.X	HE RED	625	WATER CLEAR	-	-	12	50	20	3HC12V-F
MPR3HD12VWX.X	HE RED	625	DIFFUSED	-	-	12	30	35	3HD12V-F
MPR3RC12VWX.X	RED	700	WATER CLEAR	-	-	12	6	20	3RC12V-F
MPR3RD12VWX.X	RED	700	DIFFUSED	-	-	12	2	35	3RD12V-F
MPR3YC12VWX.X	YELLOW	590	WATER CLEAR	-	-	12	40	20	3YC12V-F
MPR3YD12VWX.X	YELLOW	590	DIFFUSED	-	-	12	25	35	3YD12V-F

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DESIGNED: <b>Dan Beckman</b>	DATE: <b>07/27/07</b>	<b>PART NO:</b> MPR3XXWX.X	
CHECKED: <b>T. Yin</b>	DATE: <b>07/27/07</b>	<b>CAGE CODE :</b> 32559	<b>SHEET #</b> 4 OF 4
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