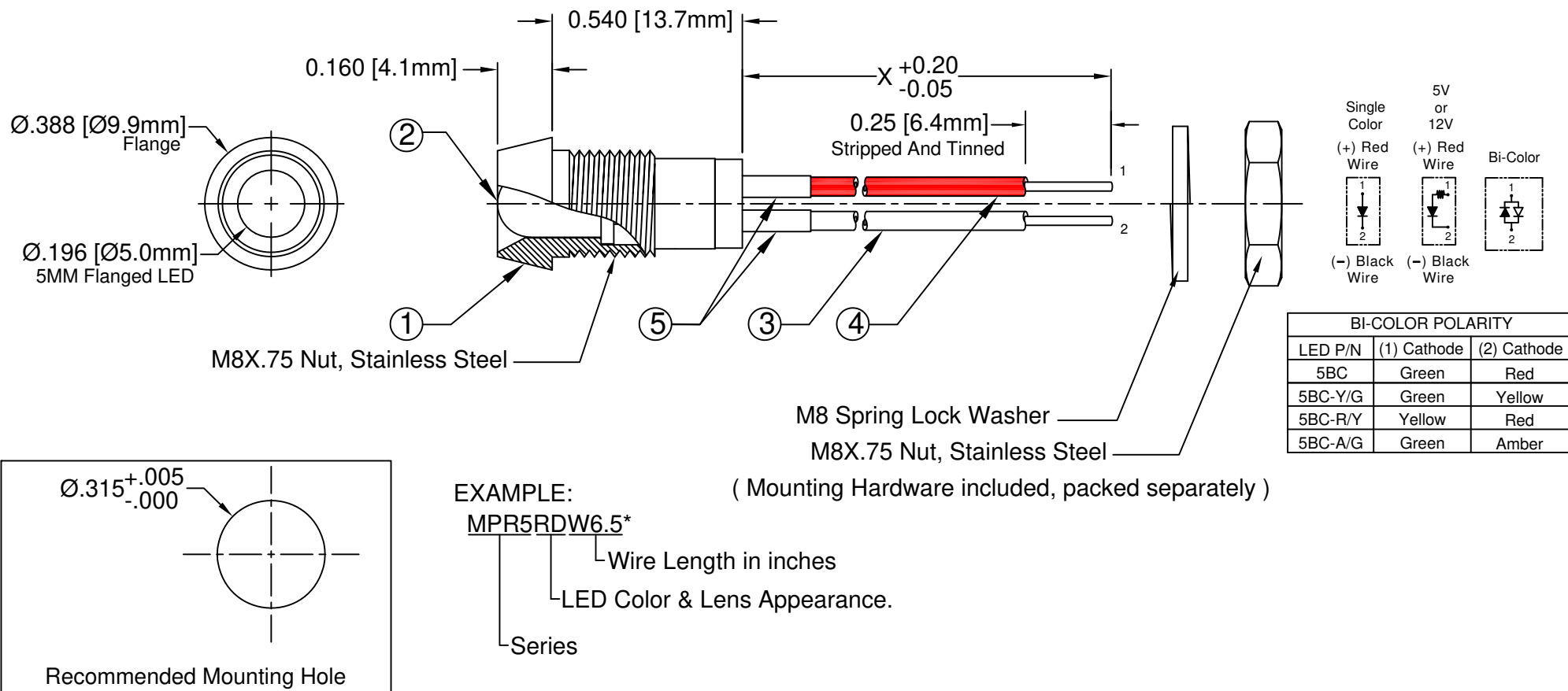


ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	MPR5	Chrome Panel Mount Holder, Recessed, 5mm
2	1	5XX-F	T-1 3/4 (5mm) Flanged LED, See Page 2
3	1	BWS24-1007-BK	24AWG Wire Lead U.L. 1007, Black
4	1	BWS24-1007-RD	24AWG Wire Lead U.L. 1007, Red
5	2	BST200-BK	Shrink Tubing, Black, .50" Cut Length

REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Release	01/31/05	M. C.
B	Added LED 5URC-F & 5URD-F	04/13/05	M. C.
C	Added LEDs, Page 2	01/19/11	T. Y.
D	Updated LED Offerings	05/07/12	T. Y.
E	Updated LED Optical Characteristics	09/15/15	J. C.
F	Corrected Dimension	11/29/16	J. C.




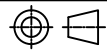
## ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

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 (UNLESS OTHERWISE SPECIFIED)		BIVAR®	
DECIMALS	ANGULAR	4 THOMAS, IRVINE, CA. 92618	
.X ± .1	X° ± 1°	TEL: (949) 951-8808 FAX: (949) 951-3974	
.XX ± .02		<b>TITLE:</b> STD METAL PANEL MOUNT INDICATORS W/ WIRES	
.XXX ± .010		<b>PART NO:</b> MPR5XXWX.X	
DESIGNED: <b>D. Green</b>	DATE: <b>01/31/05</b>	REVISION: <b>F</b>	
CHECKED: <b>T. Yin</b>	DATE: <b>01/31/05</b>	<b>CAGE CODE :</b> 32559 <b>SHEET #</b> 1 <b>OF</b> 4	
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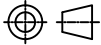
REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1		

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
MPR5BWCWX.X	GaN/SiC	430	BLUE	WATER CLEAR	25	4	4.5	30	25	5BWC-F	
MPR5BWDWX.X	GaN/SiC	430	BLUE	DIFFUSED	25	4	4.5	15	40	5BWD-F	
MPR5BWTWX.X	GaN/SiC	430	BLUE	TINTED	25	4	4.5	30	25	5BWT-F	
MPR5GCWX.X	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	40	35	5GC-F	
MPR5GDWX.X	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	25	40	5GD-F	
MPR5GTWX.X	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	40	35	5GT-F	
MPR5PGCWX.X	GaP/GaP	555	PURE GREEN	WATER CLEAR	30	2.2	2.8	10	35	5PGC-F	
MPR5PGDWX.X	GaP/GaP	555	PURE GREEN	DIFFUSED	30	2.2	2.8	10	40	5PGD-F	
MPR5PGTWX.X	GaP/GaP	555	PURE GREEN	TINTED	30	2.2	2.8	10	35	5PGT-F	
MPR5YCWX.X	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2	2.8	40	35	5YC-F	
MPR5YDWX.X	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2	2.8	25	40	5YD-F	
MPR5YTWX.X	GaAsP/GaP	590	YELLOW	TINTED	30	2	2.8	40	35	5YT-F	
MPR5ACWX.X	GaAsP/GaP	605	AMBER	WATER CLEAR	30	2	2.8	40	35	5AC-F	
MPR5ADWX.X	GaAsP/GaP	605	AMBER	DIFFUSED	30	2	2.8	25	40	5AD-F	
MPR5ATWX.X	GaAsP/GaP	605	AMBER	TINTED	30	2	2.8	40	35	5AT-F	
MPR5HCWX.X	GaAsP/GaP	625	HE RED	WATER CLEAR	30	2	2.8	50	35	5HC-F	
MPR5HDWX.X	GaAsP/GaP	625	HE RED	DIFFUSED	30	2	2.8	40	40	5HD-F	
MPR5HTWX.X	GaAsP/GaP	625	HE RED	TINTED	30	2	2.8	50	35	5HT-F	
MPR5RCWX.X	GaP/GaP	700	RED	WATER CLEAR	20	2.1	2.8	2	35	5RC-F	
MPR5RDWX.X	GaP/GaP	700	RED	DIFFUSED	20	2.1	2.8	1.5	40	5RD-F	
MPR5RTWX.X	GaP/GaP	700	RED	TINTED	20	2.1	2.8	2	35	5RT-F	
MPR5BCWX.X-A/G	GaAsP/GaP	605	AMBER	DIFFUSED	30	2.0	2.8	6	45	5BC-A/G-F	
	GaP/GaP	568	GREEN		30	2.1	2.8	6			
MPR5BCWX.X	GaAsP/GaP	625	RED	DIFFUSED	30	2.0	2.8	8	45	5BC-F	
	GaP/GaP	568	GREEN		30	2.1	2.8	8			
MPR5BCWX.X-R/Y	GaAsP/GaP	625	RED	DIFFUSED	30	2.0	2.8	8	45	5BC-R/Y-F	
	GaAsP/GaP	590	YELLOW		30	2.0	2.8	6			
MPR5BCWX.X-Y/G	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2.0	2.8	6	45	5BC-Y/G-F	
	GaP/GaP	568	GREEN		30	2.1	2.8	8			

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) DECIMALS                      ANGULAR		 <b>BIVAR</b> <sup>®</sup> 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808    FAX: (949) 951-3974	
			
DESIGNED: <b>D. Green</b>	DATE: <b>01/31/05</b>	<b>PART NO:</b> <b>MPR5XXWX.X</b>	REVISION: <b>F</b>
CHECKED: <b>T. Yin</b>	DATE: <b>01/31/05</b>	<b>CAGE CODE : 32559</b>	<b>SHEET # 2 OF 4</b>
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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1		


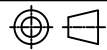
LED Assy. No.	Chip			Lens Appearance	Electro-Optical Data @ 20mA				Viewing Angle 2 θ ½ (Deg)	LED P/N	
	Material	Peak Wave Length	Emitted Color		If (mA)	Vf (V)		Iv (mcd)			
						MAX	TYP	MAX			TYP
MPR5UBWCWX.X	InGaN/SiC	468	BLUE	WATER CLEAR	50	3.2	3.6	8000	15	5BWC2.515F	
MPR5SGCWX.X	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	60	35	5SGC-F	
MPR5SGDWX.X	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	50	40	5SGD-F	
MPR5SGTWX.X	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	60	35	5SGT-F	
MPR5SYCWX.X	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2.0	2.8	600	35	5SYC-F	
MPR5SYDWX.X	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2.0	2.8	150	40	5SYD-F	
MPR5SYTWX.X	GaAsP/GaP	590	YELLOW	TINTED	30	2.0	2.8	600	35	5SYT-F	
MPR5SRCWX.X	GaAlAs/GaAs	645	SUPER RED	WATER CLEAR	30	1.7	2.4	60	35	5SRC-F	
MPR5SRDWX.X	GaAlAs/GaAs	645	SUPER RED	DIFFUSED	30	1.7	2.4	40	40	5SRD-F	
MPR5SRTWX.X	GaAlAs/GaAs	645	SUPER RED	TINTED	30	1.7	2.4	60	35	5SRT-F	
MPR5UGCWX.X	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	400	35	5UGC-F	
MPR5UGCWX.X	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	300	35	5SUGC-F	
MPR5UYCWX.X	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	1000	30	5UYC-F	
MPR5UYCWX.X	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	700	35	5SUYC-F	
MPR5UUYCWX.X	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	500	35	5UUYC-F	
MPR5UOCWX.X	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	1400	35	5UOC-F	
MPR5UOCWX.X	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	1300	35	5SUOC-F	
MPR5URCWX.X	GaAlAs/GaAs	645	RED	WATER CLEAR	30	1.7	2.4	400	30	5URC-F	
MPR5SURCWX.X	AlGaInP	640	RED	WATER CLEAR	30	1.8	2.4	500	35	5SURC-F	
MPR5UWCWX.X	InGaN/SiC	6500K	WHITE	WATER CLEAR	100	3.5	4.2	2700	30	5WC2.730F	

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DESIGNED: <b>D. Green</b>	DATE: <b>01/31/05</b>	<b>PART NO:</b> MPR5XXWX.X                      REVISION: F	
CHECKED: <b>T. Yin</b>	DATE: <b>01/31/05</b>	<b>CAGE CODE :</b> 32559 <b>SHEET #</b> 3 OF 4 <small>CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.</small>	

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		
MPR5BWDLWX.X	GaN/siC	430	BLUE	DIFFUSED	20	7	-	3.8	4.2	4.0	40	5BWDL-F
MPR5GDLWX.X	GaP/GaP	568	GREEN	DIFFUSED	10	7	-	2.1	2.6	4.0	40	5GDL-F
MPR5PGDLWX.X	GaP/GaP	555	PURE GREEN	DIFFUSED	10	7	-	2.1	2.6	1.0	40	5PGDL-F
MPR5YDLWX.X	GaAsP/GaP	590	YELLOW	DIFFUSED	10	7	-	2.0	2.6	4.0	40	5YDL-F
MPR5ADLWX.X	GaAsP/GaP	605	AMBER	DIFFUSED	10	7	-	2.0	2.6	4.0	40	5ADL-F
MPR5HDLWX.X	GaAsP/GaP	625	HE RED	DIFFUSED	10	7	-	2.0	2.6	5.0	40	5HDL-F
MPR5RDLWX.X	GaP/GaP	700	RED	DIFFUSED	10	7	-	2.1	2.6	0.5	40	5RDL-F

LED Assy. No.	Peak Wave Length λp(nm)	Emitted Color	Lens Appearance	Electro-Optical Data			Viewing Angle 2 θ½ (Deg)	LED P/N	
				If (mA)	Vf (V)	Iv (mcd)			
				MAX	TYP	MAX			TYP
<b>5 Volt</b>				<b>Data @ 5V</b>					
MPR5BWD5VWX.X	BLUE	430	DIFFUSED	-	-	5	15	40	5BWD5V-F
MPR5GC5VWX.X	GREEN	568	WATER CLEAR	-	-	5	40	40	5GC5V-F
MPR5GD5VWX.X	GREEN	568	DIFFUSED	-	-	5	25	40	5GD5V-F
MPR5GT5VWX.X	GREEN	568	TINTED	-	-	5	40	40	5GT5V-F
MPR5AD5VWX.X	AMBER	605	DIFFUSED	-	-	5	25	40	5AD5V-F
MPR5HD5VWX.X	HE RED	625	DIFFUSED	-	-	5	30	40	5HD5V-F
MPR5RD5VWX.X	RED	700	DIFFUSED	-	-	5	1.5	40	5RD5V-F
MPR5YD5VWX.X	YELLOW	590	DIFFUSED	-	-	5	25	40	5YD5V-F
<b>12 Volt</b>				<b>Data @ 12V</b>					
MPR5GC12VWX.X	GREEN	568	WATER CLEAR	-	-	12	40	35	5GC12V-F
MPR5GD12VWX.X	GREEN	568	DIFFUSED	-	-	12	25	40	5GD12V-F
MPR5HC12VWX.X	HE RED	625	WATER CLEAR	-	-	12	50	35	5HC12V-F
MPR5HD12VWX.X	HE RED	625	DIFFUSED	-	-	12	30	40	5HD12V-F
MPR5RC12VWX.X	RED	700	WATER CLEAR	-	-	12	2	35	5RC12V-F
MPR5RD12VWX.X	RED	700	DIFFUSED	-	-	12	1.5	40	5RD12V-F
MPR5YC12VWX.X	YELLOW	590	WATER CLEAR	-	-	12	25	35	5YC12V-F
MPR5YD12VWX.X	YELLOW	590	DIFFUSED	-	-	12	20	40	5YD12V-F

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DESIGNED: <b>D. Green</b>	DATE: <b>01/31/05</b>	<b>TITLE:</b> STD METAL PANEL MOUNT INDICATORS W/ WIRES	
CHECKED: <b>T. Yin</b>	DATE: <b>01/31/05</b>	<b>PART NO:</b> MPR5XXWX.X      REVISION: <b>F</b>	
		<b>CAGE CODE :</b> 32559 <b>SHEET #</b> 4 OF 4	
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