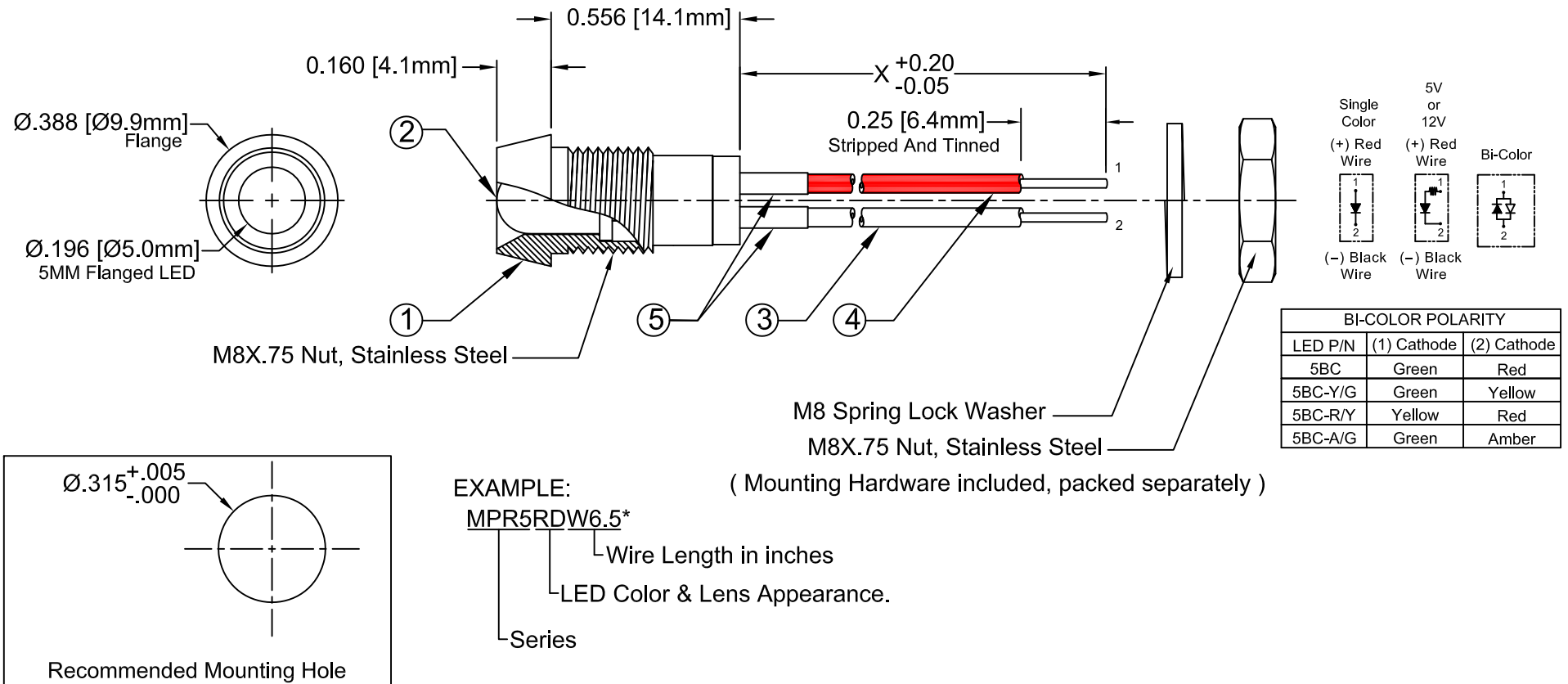


ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	MPR5	Chrome Panel Mount Holder, Recessed, 5mm
2	1	5XX-F	T-1 3/4 (5mm) Flanged LED, See Page 2
3	1	BWS24-1007-BK	24AWG Wire Lead U.L. 1007, Black
4	1	BWS24-1007-RD	24AWG Wire Lead U.L. 1007, Red
5	2	BST200-BK	Shrink Tubing, Black, .50" Cut Length

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.



ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

REVERSE VOLTAGE _____ 5V

REVERSE CURRENT ($V_R=5V$) _____ $100\mu\text{A}$

OPERATING TEMPERATURE RANGE _____ $-40^\circ\text{C} \sim 85^\circ\text{C}$

STORAGE TEMPERATURE _____ $-40^\circ\text{C} \sim 100^\circ\text{C}$

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°		
.XX ±.02			
.XXX ±.010		TITLE: STD PANEL MOUNT INDICATORS W/ WIRES	
DESIGNED: David Green	DATE: 01/31/05	PART NO: MPR5XXWX.X	REVISION: D
CHECKED: T. Yin	DATE: 01/31/05	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		
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)		 BIVAR ® 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS ANGULAR			
DESIGNED: David Green			TITLE: STD METAL PANEL MOUNT INDICATORS W/ WIRES
DATE: 01/31/05		PART NO: MPR5XXWX.X	REVISION: D
CHECKED: T. Yin		DATE: 01/31/05	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			
MPR5UBWCWX.X	InGaN/SiC	468	BLUE	WATER CLEAR	76	3.7	4.5	2500	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
MPR5SUGCWX.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
MPR5SUYCWX.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

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) <u>DECIMALS</u> <u>ANGULAR</u>		 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: MPR5XXWX.X	REVISION: D
CHECKED: T. Yin	DATE: 01/31/05	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 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

Assembly P/N	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		
5 Volt				Data @ 5V					
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
12 Volt				Data @ 12V					
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

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) DECIMALS ANGULAR		BIVAR® 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: MPR5XXWX.X	REVISION: D
CHECKED: T. Yin	DATE: 01/31/05	CAGE CODE : 32559 CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.	SHEET # 4 OF 4