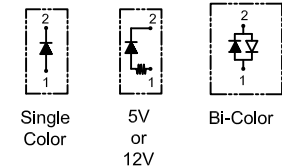
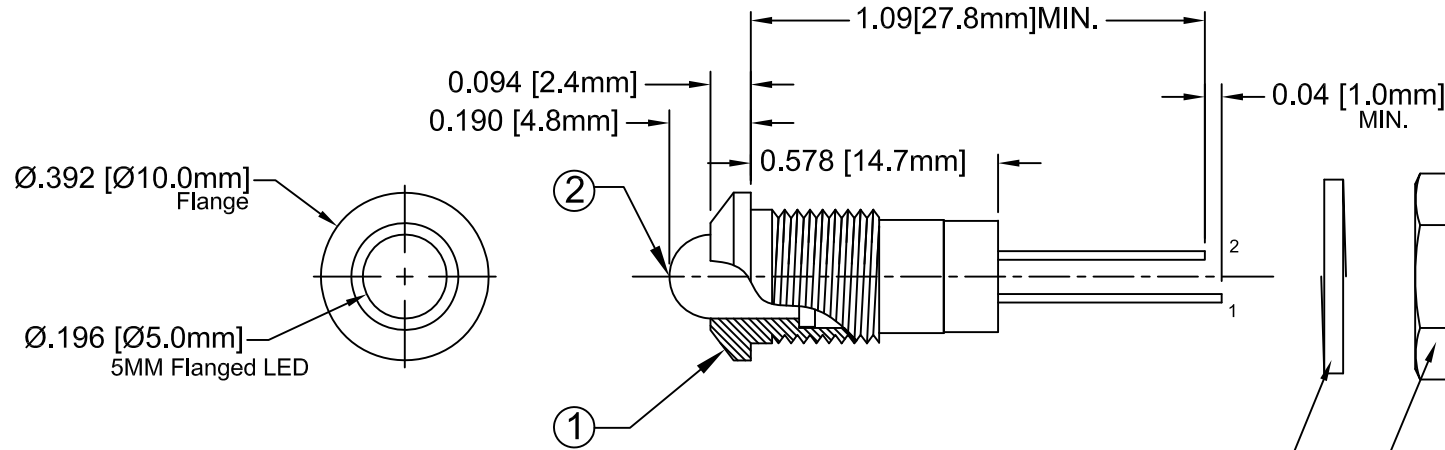


ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	MPC5	Chrome Panel Mount Holder, 5mm
2	1	5XX-F	T-1¼ (5mm) Flanged LED, See Following Pages

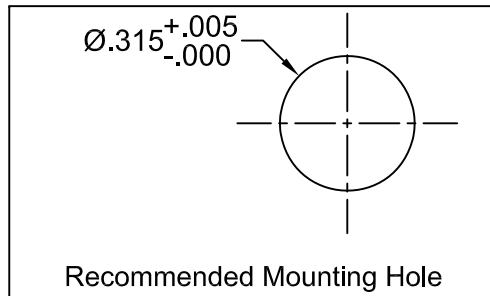
REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Release.	03/02/05	M. C.
B	Corrected MPC5 Holder Dimension	09/06/05	M. C.
C	Corrected MPC5 Holder Dimension	11/29/05	M. C.
D	Updated MPC5 Holder Dimension	09/15/06	M. C.
E	Corrected LED Lead Polarity	02/01/07	M. C.
F	Updated LED offering	05/03/12	T. Y.
G	Corrected typo on page 4	07/16/12	T. Y.



BI-COLOR POLARITY		
LED P/N	(1) Cathode	(2) Cathode
5BC	Green	Red
5BC-Y/G	Green	Yellow
5BC-R/Y	Yellow	Red
5BC-A/G	Green	Amber


M8 Spring Lock Washer  
M8X.75 Nut, Stainless Steel

( Mounting Hardware included, packed separately )




## 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 )		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974
DECIMALS	ANGULAR	
.X ± .1	X° ± 1°	<b>TITLE:</b> STD METAL PANEL MOUNT INDICATORS <b>PART NO:</b> MPC5XX <b>REVISION:</b> G
.XX ± .02		
.XXX ± .010		
DESIGNED: <b>David Green</b>	DATE: <b>03/02/05</b>	<b>CAGE CODE :</b> 32559 <b>SHEET #</b> 1 <b>OF</b> 4 <small>CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.</small>
CHECKED: <b>T. Yin</b>	DATE: <b>03/02/05</b>	



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
MPC5BWC	GaN/SiC	430	BLUE	WATER CLEAR	25	4	4.5	25	20	5BWC-F	
MPC5BWD	GaN/SiC	430	BLUE	DIFFUSED	25	4	4.5	15	45	5BWD-F	
MPC5BWT	GaN/SiC	430	BLUE	TINTED	25	4	4.5	30	20	5BWT-F	
MPC5GC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	40	35	5GC-F	
MPC5GD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	25	45	5GD-F	
MPC5GT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	40	35	5GT-F	
MPC5UGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	600	35	5UGC-F	
MPC5PGC	GaP/GaP	555	PURE GREEN	WATER CLEAR	30	2.2	2.8	10	35	5PGC-F	
MPC5PGD	GaP/GaP	555	PURE GREEN	DIFFUSED	30	2.2	2.8	10	45	5PGD-F	
MPC5PGT	GaP/GaP	555	PURE GREEN	TINTED	30	2.2	2.8	10	35	5PGT-F	
MPC5YC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2	2.8	40	35	5YC-F	
MPC5YD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2	2.8	25	45	5YD-F	
MPC5YT	GaAsP/GaP	590	YELLOW	TINTED	30	2	2.8	40	35	5YT-F	
MPC5AC	GaAsP/GaP	605	AMBER	WATER CLEAR	30	2	2.8	40	35	5AC-F	
MPC5AD	GaAsP/GaP	605	AMBER	DIFFUSED	30	2	2.8	25	45	5AD-F	
MPC5AT	GaAsP/GaP	605	AMBER	TINTED	30	2	2.8	40	35	5AT-F	
MPC5HC	GaAsP/GaP	625	HE RED	WATER CLEAR	30	2	2.8	40	35	5HC-F	
MPC5HD	GaAsP/GaP	625	HE RED	DIFFUSED	30	2	2.8	25	45	5HD-F	
MPC5HT	GaAsP/GaP	625	HE RED	TINTED	30	2	2.8	40	35	5HT-F	
MPC5RC	GaP/GaP	700	RED	WATER CLEAR	20	2.1	2.8	2	35	5RC-F	
MPC5RD	GaP/GaP	700	RED	DIFFUSED	20	2.1	2.8	2	45	5RD-F	
MPC5RT	GaP/GaP	700	RED	TINTED	20	2.1	2.8	2	35	5RT	
MPC5BC-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			
MPC5BC	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			
MPC5BC-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			
MPC5BC-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		 <b>BIVAR</b> <sup>®</sup> 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
ANGULAR X° ± 5°			
DESIGNED: <b>David Green</b>		DATE: <b>03/02/05</b>	<b>TITLE: STD METAL PANEL MOUNT INDICATORS</b> <b>PART NO: MPC5XX</b> <b>REVISION: G</b>
CHECKED: <b>T. Yin</b>		DATE: <b>03/02/05</b>	
		<b>CAGE CODE : 32559</b>	<b>SHEET # 2 OF 4</b>
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		


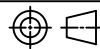
LED Assy. No.	Chip			Lens Appearance	Electro-Optical Data @ 20mA				Viewing Angle 2θ ½ (Deg)	LED P/N	
	Material	Peak Wave Length	Emitted Color		If (mA)	Vf (V)		Iv (mcd)			
						MAX	TYP	MAX			TYP
MPC5UBWC	InGaN/SiC	468	BLUE	WATER CLEAR	76	3.7	4.5	2500	15	5BWC2.515F	
MPC5SGC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	60	35	5SGC-F	
MPC5SGD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	50	40	5SGD-F	
MPC5SGT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	60	35	5SGT-F	
MPC5SYC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2.0	2.8	600	35	5SYC-F	
MPC5SYD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2.0	2.8	150	40	5SYD-F	
MPC5SYT	GaAsP/GaP	590	YELLOW	TINTED	30	2.0	2.8	600	35	5SYT-F	
MPC5SRC	GaAlAs/GaAs	645	SUPER RED	WATER CLEAR	30	1.7	2.4	60	35	5SRC-F	
MPC5SRD	GaAlAs/GaAs	645	SUPER RED	DIFFUSED	30	1.7	2.4	40	40	5SRD-F	
MPC5SRT	GaAlAs/GaAs	645	SUPER RED	TINTED	30	1.7	2.4	60	35	5SRT-F	
MPC5UGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	400	35	5UGC-F	
MPC5SUGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	300	35	5SUGC-F	
MPC5UYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	1000	30	5UYC-F	
MPC5SUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	700	35	5SUYC-F	
MPC5UUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	500	35	5UUYC-F	
MPC5UOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	1400	35	5UOC-F	
MPC5UOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	1300	35	5SUOC-F	
MPC5URC	GaAlAs/GaAs	645	RED	WATER CLEAR	30	1.7	2.4	400	30	5URC-F	
MPC5SURC	AlGaInP	640	RED	WATER CLEAR	30	1.8	2.4	500	35	5SURC-F	
MPC5UWC	InGaN/SiC	6500K	WHITE	WATER CLEAR	100	3.5	4.2	2700	30	5WC2.730F	

STANDARD TOLERANCE ( UNLESS OTHERWISE SPECIFIED ) ±10% ALL VALUES		 <b>BIVAR</b> <sup>®</sup> 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
ANGULAR X° ± 5°			
		TITLE: STD METAL PANEL MOUNT INDICATORS	
		DESIGNED: <b>David Green</b>	DATE: <b>03/02/05</b>
CHECKED: <b>T. Yin</b>		DATE: <b>03/02/05</b>	CAGE CODE : 32559 SHEET # 3 OF 4
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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

LED Assy. No.	Peak Wave Length $\lambda_p$ (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		
MPC5BWDL	430	BLUE	DIFFUSED	7	3.8	4.2	4	40	5BWDL-F
MPC5PGDL	555	PURE GREEN	DIFFUSED	7	2.1	2.6	1	40	5PGDL-F
MPC5GDL	568	GREEN	DIFFUSED	7	2.1	2.6	4	40	5GDL-F
MPC5YDL	590	YELLOW	DIFFUSED	7	2.0	2.6	4	40	5YDL-F
MPC5ADL	605	AMBER	DIFFUSED	7	2.0	2.6	4	40	5ADL-F
MPC5HDL	625	HE RED	DIFFUSED	7	2.0	2.6	5	40	5HDL-F
MPC5SRDL	645	SUPER RED	DIFFUSED	7	1.7	2.3	6	40	5SRDL-F

Assembly P/N	Peak Wave Length $\lambda_p$ (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	MAX	TYP		
<b>5 Volt</b>				<b>Data @ 5V</b>					
MPC5BWD5V	BLUE	430	DIFFUSED	-	-	5	15	40	5BWD5V-F
MPC5GC5V	GREEN	568	WATER CLEAR	-	-	5	40	40	5GC5V-F
MPC5GD5V	GREEN	568	DIFFUSED	-	-	5	25	40	5GD5V-F
MPC5GT5V	GREEN	568	TINTED	-	-	5	40	40	5GT5V-F
MPC5AD5V	AMBER	605	DIFFUSED	-	-	5	25	40	5AD5V-F
MPC5HD5V	HE RED	625	DIFFUSED	-	-	5	30	40	5HD5V-F
MPC5RD5V	RED	700	DIFFUSED	-	-	5	1.5	40	5RD5V-F
MPC5YD5V	YELLOW	590	DIFFUSED	-	-	5	25	40	5YD5V-F
<b>12 Volt</b>				<b>Data @ 12V</b>					
MPC5GC12V	GREEN	568	WATER CLEAR	-	-	12	40	35	5GC12V-F
MPC5GD12V	GREEN	568	DIFFUSED	-	-	12	25	40	5GD12V-F
MPC5HC12V	HE RED	625	WATER CLEAR	-	-	12	50	35	5HC12V-F
MPC5HD12V	HE RED	625	DIFFUSED	-	-	12	30	40	5HD12V-F
MPC5RC12V	RED	700	WATER CLEAR	-	-	12	2	35	5RC12V-F
MPC5RD12V	RED	700	DIFFUSED	-	-	12	1.5	40	5RD12V-F
MPC5YC12V	YELLOW	590	WATER CLEAR	-	-	12	25	35	5YC12V-F
MPC5YD12V	YELLOW	590	DIFFUSED	-	-	12	20	40	5YD12V-F

STANDARD TOLERANCE ( UNLESS OTHERWISE SPECIFIED ) $\pm 10\%$ ALL VALUES		 <b>BIVAR</b> <sup>®</sup> 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
ANGULAR X° $\pm$ 5°			
		TITLE: STD METAL PANEL MOUNT INDICATORS	
		DESIGNED: <b>David Green</b>	DATE: <b>03/02/05</b>
CHECKED: <b>T. Yin</b>		DATE: <b>03/02/05</b>	CAGE CODE : <b>32559</b> SHEET # <b>4 OF 4</b>
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