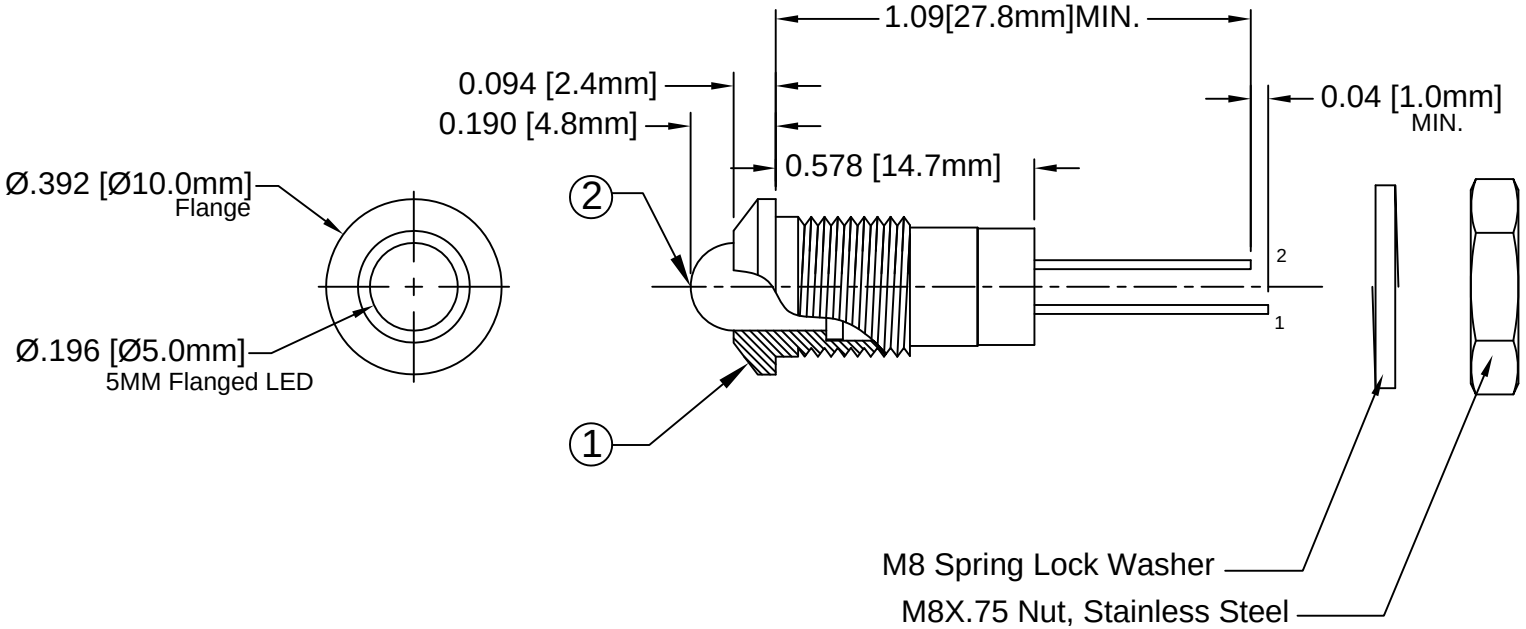
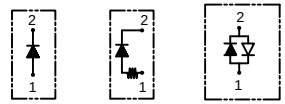
ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	MPC5	Chrome Panel Mount Holder, 5mm
2	1	5XX-F	T-1¾ (5mm) Flanged LED, See Following Pages

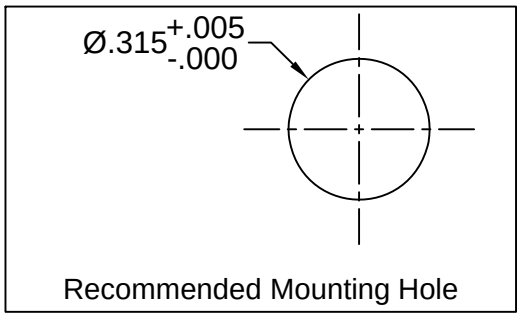
REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Release.	03/02/05	M. C.
B	Corrected MPC5 Holder Dimension	09/06/05	M. C.
C	Corrected MPC5 Holder Dimension	11/29/05	M. C.
D	Updated MPC5 Holder Dimension	09/15/06	M. C.
E	Corrected LED Lead Polarity	02/01/07	M. C.
F	Updated LED offering	05/03/12	T. Y.
G	Corrected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





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

(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)

DECIMALS		ANGULAR
.X	± .1	X° ± 1°
.XX	± .02	
.XXX	± .010	

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TITLE: STD METAL PANEL MOUNT INDICATORS

DESIGNED:	DATE:	PART NO:	REVISION:
David Green	03/02/05	MPC5XX	H
CHECKED: T. Yin	DATE: 03/02/05	CAGE CODE : 32559	SHEET # 1 OF 4

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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1.		

LED Assy. No.	Chip			Lens Appearance	Electro-Optical Data @ 20mA				Viewing Angle 2θ½ (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-F
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 ANGULAR
X° ± 5°

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TITLE: STD METAL PANEL MOUNT INDICATORS

DESIGNED:	DATE:	PART NO:	REVISION:
David Green	03/02/05	MPC5XX	H
CHECKED: T. Yin	DATE: 03/02/05	CAGE CODE : 32559	SHEET # 2 OF 4

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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1.		

LED Assy. No.	Chip			Lens Appearance	Electro-Optical Data @ 20mA				Viewing Angle 2θ½ (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	50	3.2	3.6	8000	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

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CHECKED: T. Yin	DATE: 03/02/05	CAGE CODE : 32559	SHEET # 3 OF 4

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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1.		

LED Assy. No.	Peak Wave Length λp(nm)	Emitted Color	Lens Appearance	Max. Rating	Electro-Optical Data @ 2mA			Viewing Angle 2 Θ ½ (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

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		
5 Volt				**Data @ 5V**					
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
12 Volt				**Data @ 12V**					
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

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Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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