



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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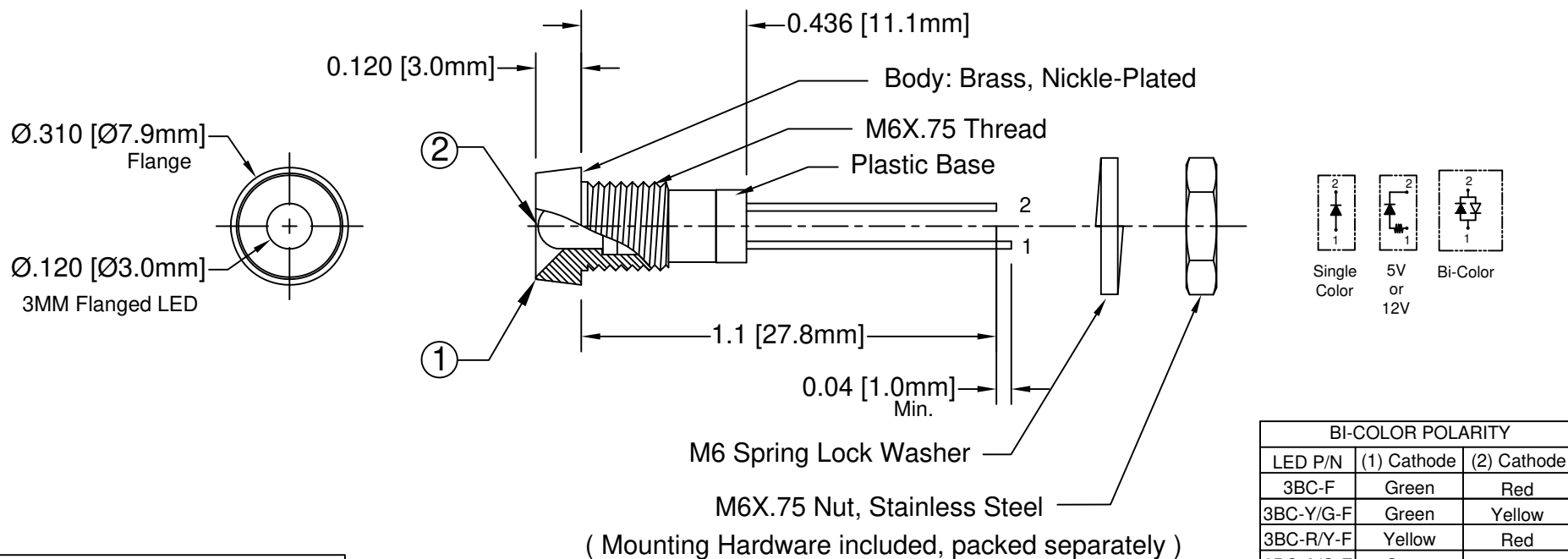
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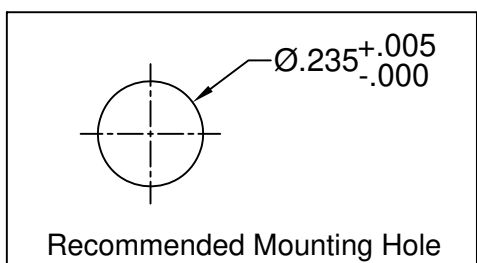


ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	MPR3	Chrome Panel Mount Holder, 3mm
2	1	3XX-F	T-1 (3mm) Flanged LED, See Following Pages

REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Release.	10/31/03	M. C.
B	Engineering Update w/o Changes.	04/07/05	M. C.
C	Dimension Update	07/10/06	M. C.
D	Updated Specs	04/03/09	T. Y.
E	Updated Specs	04/26/12	T. Y.
F	Updated LED offering	05/03/12	T. Y.
G	Updated Bi-Color Polarity Table	12/18/12	T. Y.
H	Updated LED Optical Characteristics	09/15/15	J. C.


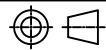


( Mounting Hardware included, packed separately )





## 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

STANDARD TOLERANCE ( UNLESS OTHERWISE SPECIFIED )		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS	ANGULAR		
.X ± .1	X° ± 1°		TITLE: STD METAL PANEL MOUNT INDICATORS
.XX ± .02			PART NO: MPR3XX
.XXX ± .010			REVISION: H
DESIGNED: David Green	DATE: 02/14/03	CAGE CODE : 32559	SHEET # 1 OF 4
CHECKED: M. Chen	DATE: 02/14/03	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
MPR3BWC	GaN/SiC	430	BLUE	WATER CLEAR	25	4	4.5	15	20	3BWC-F	
MPR3BWD	GaN/SiC	430	BLUE	DIFFUSED	25	4	4.5	10	35	3BWD-F	
MPR3BWT	GaN/SiC	430	BLUE	TINTED	25	4	4.5	15	20	3BWT-F	
MPR3GC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	40	20	3GC-F	
MPR3GD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	25	35	3GD-F	
MPR3GT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	40	20	3GT-F	
MPR3PGC	GaP/GaP	555	PURE GREEN	WATER CLEAR	30	2.2	2.8	10	20	3PGC-F	
MPR3PGD	GaP/GaP	555	PURE GREEN	DIFFUSED	30	2.2	2.8	5	35	3PGD-F	
MPR3PGT	GaP/GaP	555	PURE GREEN	TINTED	30	2.2	2.8	10	20	3PGT-F	
MPR3YC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2	2.8	40	20	3YC-F	
MPR3YD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2	2.8	20	35	3YD-F	
MPR3YT	GaAsP/GaP	590	YELLOW	TINTED	30	2	2.8	40	20	3YT-F	
MPR3AC	GaAsP/GaP	605	AMBER	WATER CLEAR	30	2	2.8	40	20	3AC-F	
MPR3AD	GaAsP/GaP	605	AMBER	DIFFUSED	30	2	2.8	25	35	3AD-F	
MPR3AT	GaAsP/GaP	605	AMBER	TINTED	30	2	2.8	40	20	3AT-F	
MPR3HC	GaAsP/GaP	625	HE RED	WATER CLEAR	30	2	2.8	50	20	3HC-F	
MPR3HD	GaAsP/GaP	625	HE RED	DIFFUSED	30	2	2.8	30	35	3HD-F	
MPR3HT	GaAsP/GaP	625	HE RED	TINTED	30	2	2.8	50	20	3HT-F	
MPR3RC	GaP/GaP	700	RED	WATER CLEAR	20	2.1	2.8	2.5	35	3RC-F	
MPR3RD	GaP/GaP	700	RED	DIFFUSED	20	2.1	2.8	2	20	3RD-F	
MPR3RT	GaP/GaP	700	RED	TINTED	20	2.1	2.8	2.5	20	3RT-F	
MPR3BC-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			
MPR3BC	GaAsP/GaP	625	RED	DIFFUSED	30	2.0	2.8	6	45	3BC-F	
	GaP/GaP	568	GREEN		30	2.1	2.8	6			
MPR3BC-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			
MPR3BC-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 <u>ANGULAR</u>		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808    FAX: (949) 951-3974	
X° ± 5°			
		TITLE: STD METAL PANEL MOUNT INDICATORS	
		DESIGNED: David Green	DATE: 02/14/03
CHECKED: M. Chen		DATE: 02/14/03	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	MAX	TYP		
MPR3UBWC	GaN/SiC	470	BLUE	WATER CLEAR	30	4	4.5	400	30	3UBWC-0.6K-F
MPR3SGC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	50	20	3SGC-F
MPR3SGD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	30	35	3SGD-F
MPR3SGT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	50	20	3SGT-F
MPR3SYC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2.0	2.8	50	20	3SYC-F
MPR3SYD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2.0	2.8	30	35	3SYD-F
MPR3SYT	GaAsP/GaP	590	YELLOW	TINTED	30	2.0	2.8	50	20	3SYT-F
MPR3SAC	AlGaInP	605	AMBER	WATER CLEAR	30	1.8	2.4	300	20	3SAC-F
MPR3SAD	AlGaInP	605	AMBER	DIFFUSED	30	1.8	2.4	100	35	3SAD-F
MPR3SAT	AlGaInP	605	AMBER	TINTED	30	1.8	2.4	300	20	3SAT-F
MPR3SRC	GaAlAs/GaAs	645	SUPER RED	WATER CLEAR	30	1.7	2.4	60	20	3SRC-F
MPR3SRD	GaAlAs/GaAs	645	SUPER RED	DIFFUSED	30	1.7	2.4	40	35	3SRD-F
MPR3SRT	GaAlAs/GaAs	645	SUPER RED	TINTED	30	1.7	2.4	60	20	3SRT-F
MPR3UGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	200	20	3UGC-F
MPR3UGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	300	35	3UGC-F
MPR3UYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	300	20	3UYC-F
MPR3UUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	400	20	3UUYC-F
MPR3UUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	600	35	3UUYC-F
MPR3UOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	300	20	3UOC-F
MPR3SUOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	400	20	3SUOC-F
MPR3URC	GaAlAs/GaAs	645	RED	WATER CLEAR	30	1.7	2.4	200	35	3URC-F
MPR3SURC	AlGaInP	640	RED	WATER CLEAR	30	1.8	2.4	200	20	3SURC-F
MPR3UWC	InGaN/Sapphire	6500K	WHITE	WATER CLEAR	30	3.2	3.6	6000	35	3UWC1.035C-F

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES		ANGULAR X° ± 5°		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974
DESIGNED: <b>David Green</b>		DATE: <b>02/14/03</b>		
CHECKED: <b>M. Chen</b>		DATE: <b>02/14/03</b>		PART NO: <b>MPR3XX</b>
				REVISION: <b>H</b>
				CAGE CODE : <b>32559</b> SHEET # <b>3 OF 4</b>
CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.				

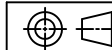
REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1.		

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		
MPR3BWDL	GaN/siC	430	BLUE	DIFFUSED	20	7	-	3.8	4.2	2.5	35	3BWDL-F
MPR3GDL	GaP/GaP	568	GREEN	DIFFUSED	10	7	-	2.1	2.6	4.0	35	3GDL-F
MPR3PGDL	GaP/GaP	555	PURE GREEN	DIFFUSED	10	7	-	2.1	2.6	0.2	35	3PGDL-F
MPR3YDL	GaAsP/GaP	590	YELLOW	DIFFUSED	10	7	-	2.0	2.6	2.0	35	3YDL-F
MPR3ADL	GaAsP/GaP	605	AMBER	DIFFUSED	10	7	-	2.0	2.6	4.0	35	3ADL-F
MPR3HDL	GaAsP/GaP	625	HE RED	DIFFUSED	10	7	-	2.0	2.6	2.5	35	3HDL-F
MPR3RDL	GaP/GaP	700	RED	DIFFUSED	10	7	-	2.1	2.6	0.5	35	3RDL-F
MPR3SRDL	GaAlAs/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 θ½ (Deg)	LED P/N
				If (mA)	Vf (V)		Iv (mcd)		
					MAX	TYP			
<b>5 Volt</b>				<b>Data @ 5V</b>					
MPR3BWD5V	BLUE	430	DIFFUSED	-	-	5	10	35	3BWD5V-F
MPR3GC5V	GREEN	568	WATER CLEAR	-	-	5	40	20	3GC5V-F
MPR3GD5V	GREEN	568	DIFFUSED	-	-	5	25	35	3GD5V-F
MPR3GT5V	GREEN	568	TINTED	-	-	5	40	20	3GT5V-F
MPR3AD5V	AMBER	605	DIFFUSED	-	-	5	25	35	3AD5V-F
MPR3HD5V	HE RED	625	DIFFUSED	-	-	5	30	35	3HD5V-F
MPR3RD5V	RED	700	DIFFUSED	-	-	5	2	35	3RD5V-F
MPR3YD5V	YELLOW	590	DIFFUSED	-	-	5	20	35	3YD5V-F
<b>12 Volt</b>				<b>Data @ 12V</b>					
MPR3GC12V	GREEN	568	WATER CLEAR	-	-	12	40	20	3GC12V-F
MPR3GD12V	GREEN	568	DIFFUSED	-	-	12	25	35	3GD12V-F
MPR3HC12V	HE RED	625	WATER CLEAR	-	-	12	50	20	3HC12V-F
MPR3HD12V	HE RED	625	DIFFUSED	-	-	12	30	35	3HD12V-F
MPR3RC12V	RED	700	WATER CLEAR	-	-	12	6	20	3RC12V-F
MPR3RD12V	RED	700	DIFFUSED	-	-	12	2	35	3RD12V-F
MPR3YC12V	YELLOW	590	WATER CLEAR	-	-	12	40	20	3YC12V-F
MPR3YD12V	YELLOW	590	DIFFUSED	-	-	12	25	35	3YD12V-F

STANDARD TOLERANCE  
( UNLESS OTHERWISE SPECIFIED )  
±10% ALL VALUES

ANGULAR  
X° ± 5°



**BIVAR**®

4 THOMAS, IRVINE, CA. 92618  
TEL: (949) 951-8808 FAX: (949) 951-3974

TITLE: STD METAL PANEL MOUNT INDICATORS

DESIGNED:  
**David Green**

DATE:  
**02/14/03**

PART NO:  
**MPR3XX**

REVISION:  
**H**

CHECKED:  
**M. Chen**

DATE:  
**02/14/03**

CAGE CODE : **32559** SHEET # **4 OF 4**

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