

# MPC3GD5V Datasheet



DiGi Electronics Part Number	MPC3GD5V-DG
Manufacturer	<a href="#">Bivar Inc.</a>
Manufacturer Product Number	MPC3GD5V
Description	LED ASSEMBLY
Detailed Description	Panel Indicator

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## Purchase and inquiry

Manufacturer Product Number:

MPC3GD5V

Series:

\*

Manufacturer:

Bivar Inc.

Product Status:

Obsolete

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

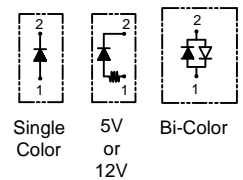
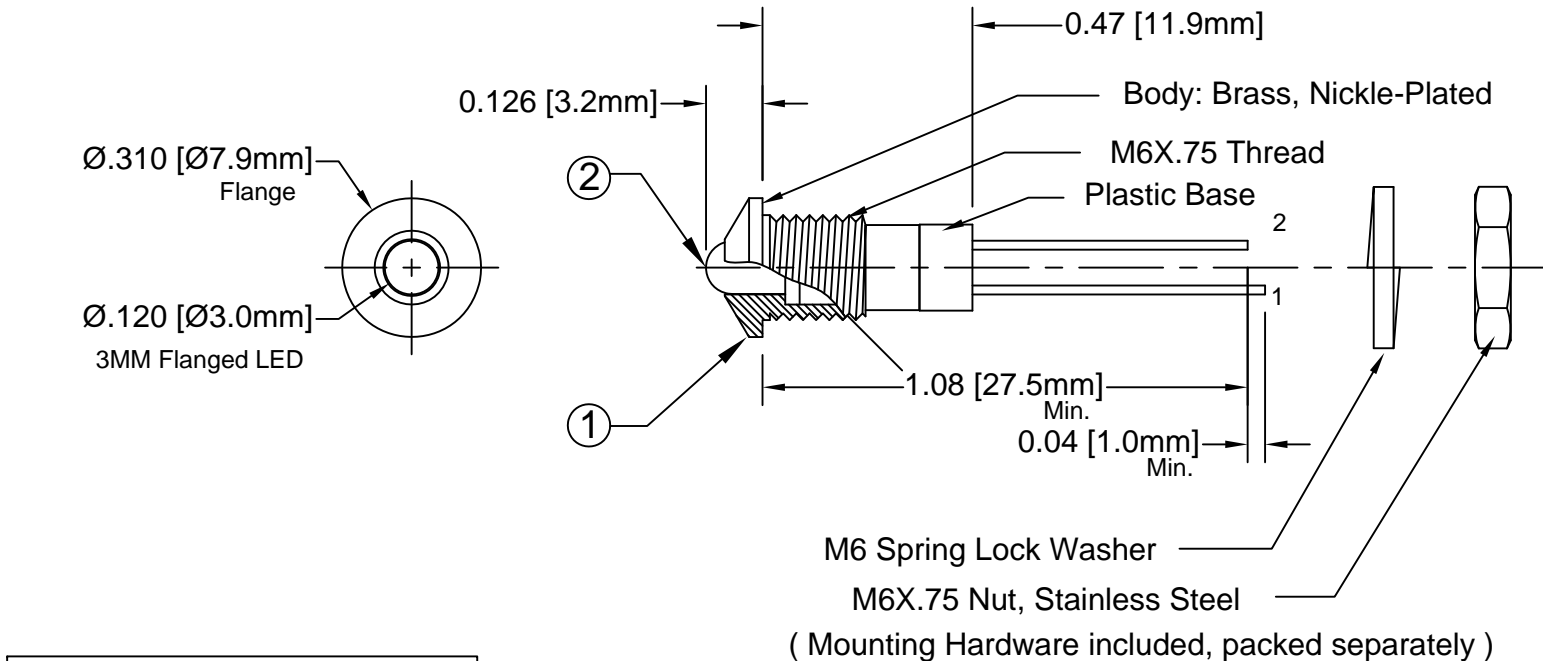
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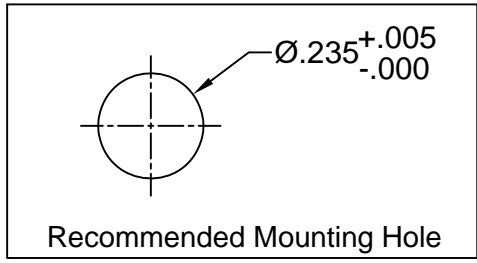
OBSOLETE

ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	MPC3	Chrome Panel Mount Holder, 3mm
2	1	3XX-F	T-1 (3mm) Flanged LED, See Page 2 & 3

REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Release.	10/31/03	M. C.
B	Engineering Update w/o Changes.	04/06/05	M. C.
C	Changed Holder Length from .43 to .47.	03/21/07	M. C.
D	LED Updates	11/07/11	T. Y.
E	Updated LED offering	05/03/12	T. Y.
F	Updated Bi-Color Polarity Table	12/18/12	T. Y.
G	Updated LED Optical Characteristics	09/14/15	J. C.



BI-COLOR POLARITY		
LED P/N	(1) Cathode	(2) Cathode
3BC-F	Green	Red
3BC-Y/G-F	Green	Yellow
3BC-R/Y-F	Yellow	Red
3BC-A/G-F	Green	Amber



MPC3GD5V Bivar Inc. LED ASSEMBLY

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


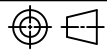
REVERSE VOLTAGE	_____	5V
REVERSE CURRENT ( VR=5V)	_____	100µA
OPERATING TEMPERATURE RANGE	_____	-40°C ~ 85°C
STORAGE TEMPERATURE	_____	-40°C ~ 100°C
LEAD SOLDERING TEMPERATURE (1/16" FROM BODY)	_____	260°C for 5 Seconds

STANDARD TOLERANCE ( UNLESS OTHERWISE SPECIFIED )		<b>BIVAR</b> <sup>®</sup> 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS	ANGULAR		
.X ± .1	X° ± 1°	<b>TITLE: STD METAL PANEL MOUNT INDICATORS</b>	
.XX ± .02			
.XXX ± .010			
DESIGNED: <b>David Green</b>	DATE: <b>10/31/03</b>	<b>PART NO:</b> <b>MPC3XX</b>	REVISION: <b>G</b>
CHECKED: <b>M. Chen</b>	DATE: <b>10/31/03</b>	<b>CAGE CODE : 32559</b>	<b>SHEET # 1 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
MPC3BWC	GaN/SiC	430	BLUE	WATER CLEAR	25	4	4.5	15	20	3BWC-F	
MPC3BWD	GaN/SiC	430	BLUE	DIFFUSED	25	4	4.5	10	35	3BWD-F	
MPC3BWT	GaN/SiC	430	BLUE	TINTED	25	4	4.5	15	20	3BWT-F	
MPC3GC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	40	20	3GC-F	
MPC3GD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	25	35	3GD-F	
MPC3GT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	40	20	3GT-F	
MPC3PGC	GaP/GaP	555	PURE GREEN	WATER CLEAR	30	2.2	2.8	10	20	3PGC-F	
MPC3PGD	GaP/GaP	555	PURE GREEN	DIFFUSED	30	2.2	2.8	5	35	3PGD-F	
MPC3PGT	GaP/GaP	555	PURE GREEN	TINTED	30	2.2	2.8	10	20	3PGT-F	
MPC3YC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2	2.8	40	20	3YC-F	
MPC3YD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2	2.8	20	35	3YD-F	
MPC3YT	GaAsP/GaP	590	YELLOW	TINTED	30	2	2.8	40	20	3YT-F	
MPC3AC	GaAsP/GaP	605	AMBER	WATER CLEAR	30	2	2.8	40	20	3AC-F	
MPC3AD	GaAsP/GaP	605	AMBER	DIFFUSED	30	2	2.8	25	35	3AD-F	
MPC3AT	GaAsP/GaP	605	AMBER	TINTED	30	2	2.8	40	20	3AT-F	
MPC3HC	GaAsP/GaP	625	HE RED	WATER CLEAR	30	2	2.8	50	20	3HC-F	
MPC3HD	GaAsP/GaP	625	HE RED	DIFFUSED	30	2	2.8	30	35	3HD-F	
MPC3HT	GaAsP/GaP	625	HE RED	TINTED	30	2	2.8	50	20	3HT-F	
MPC3RC	GaP/GaP	700	RED	WATER CLEAR	20	2.1	2.8	2.5	35	3RC-F	
MPC3RD	GaP/GaP	700	RED	DIFFUSED	20	2.1	2.8	2	20	3RD-F	
MPC3RT	GaP/GaP	700	RED	TINTED	20	2.1	2.8	2.5	20	3RT-F	
MPC3BC-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			
MPC3BC	GaAsP/GaP	625	RED	DIFFUSED	30	2.0	2.8	6	45	3BC-F	
	GaP/GaP	568	GREEN		30	2.1	2.8	6			
MPC3BC-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			
MPC3BC-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			


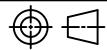
MPC3GD5V Bivar Inc. LED ASSEMBLY

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: <b>David Green</b>	DATE: <b>10/31/03</b>
CHECKED: <b>M. Chen</b>		DATE: <b>10/31/03</b>	CAGE CODE : <b>32559</b> SHEET # <b>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 2θ ½ (Deg)	LED P/N	
	Material	Peak Wave Length	Emitted Color		If (mA)	Vf (V)		Iv (mcd)			
						MAX	TYP	MAX			TYP
MPC3UBWC	GaN/SiC	470	BLUE	WATER CLEAR	30	4	4.5	400	30	3UBWC-0.6K-F	
MPC3SGC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	50	20	3SGC-F	
MPC3SGD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	30	35	3SGD-F	
MPC3SGT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	50	20	3SGT-F	
MPC3SYC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2.0	2.8	50	20	3SYC-F	
MPC3SYD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2.0	2.8	30	35	3SYD-F	
MPC3SYT	GaAsP/GaP	590	YELLOW	TINTED	30	2.0	2.8	50	20	3SYT-F	
MPC3SAC	AlGaInP	605	AMBER	WATER CLEAR	30	1.8	2.4	300	20	3SAC-F	
MPC3SAD	AlGaInP	605	AMBER	DIFFUSED	30	1.8	2.4	100	35	3SAD-F	
MPC3SAT	AlGaInP	605	AMBER	TINTED	30	1.8	2.4	300	20	3SAT-F	
MPC3SRC	GaAlAs/GaAs	645	SUPER RED	WATER CLEAR	30	1.7	2.4	60	20	3SRC-F	
MPC3SRD	GaAlAs/GaAs	645	SUPER RED	DIFFUSED	30	1.7	2.4	40	35	3SRD-F	
MPC3SRT	GaAlAs/GaAs	645	SUPER RED	TINTED	30	1.7	2.4	60	20	3SRT-F	
MPC3UGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	200	20	3UGC-F	
MPC3UGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	300	35	3SUGC-F	
MPC3UYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	300	20	3UYC-F	
MPC3SUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	400	20	3SUYC-F	
MPC3UUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	600	35	3UUYC-F	
MPC3UOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	300	20	3UOC-F	
MPC3SUOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	400	20	3SUOC-F	
MPC3URC	GaAlAs/GaAs	645	RED	WATER CLEAR	30	1.7	2.4	200	35	3URC-F	
MPC3SURC	AlGaInP	640	RED	WATER CLEAR	30	1.8	2.4	200	20	3SURC-F	
MPC3UWC	InGaN/Sapphire	6500K	WHITE	WATER CLEAR	30	3.2	3.6	6000	35	3UWC1.035C-F	

MPC3GD5V Bivar Inc. LED ASSEMBLY


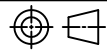
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ANGULAR X° ± 5°		 <b>TITLE: STD METAL PANEL MOUNT INDICATORS</b>	
DESIGNED: <b>David Green</b>	DATE: <b>10/31/03</b>	<b>PART NO:</b> MPC3XX	REVISION: <b>G</b>
CHECKED: <b>M. Chen</b>	DATE: <b>10/31/03</b>	<b>CAGE CODE : 32559</b>	<b>SHEET # 3 OF 4</b>
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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		
MPC3BVDL	GaN/siC	430	BLUE	DIFFUSED	20	7	-	3.8	4.2	2.5	35	3BVDL-F
MPC3GDL	GaP/GaP	568	GREEN	DIFFUSED	10	7	-	2.1	2.6	4.0	35	3GDL-F
MPC3PGDL	GaP/GaP	555	PURE GREEN	DIFFUSED	10	7	-	2.1	2.6	0.2	35	3PGDL-F
MPC3YDL	GaAsP/GaP	590	YELLOW	DIFFUSED	10	7	-	2.0	2.6	2.0	35	3YDL-F
MPC3ADL	GaAsP/GaP	605	AMBER	DIFFUSED	10	7	-	2.0	2.6	4.0	35	3ADL-F
MPC3HDL	GaAsP/GaP	625	HE RED	DIFFUSED	10	7	-	2.0	2.6	2.5	35	3HDL-F
MPC3RDL	GaP/GaP	700	RED	DIFFUSED	10	7	-	2.1	2.6	0.5	35	3RDL-F
MPC3SRDL	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	MAX		
<b>5 Volt</b>				<b>Data @ 5V</b>					
MPC3BWD5V	BLUE	430	DIFFUSED	-	-	5	10	35	3BWD5V-F
MPC3GC5V	GREEN	568	WATER CLEAR	-	-	5	40	20	3GC5V-F
MPC3GD5V	GREEN	568	DIFFUSED	-	-	5	25	35	3GD5V-F
MPC3GT5V	GREEN	568	TINTED	-	-	5	40	20	3GT5V-F
MPC3AD5V	AMBER	605	DIFFUSED	-	-	5	25	35	3AD5V-F
MPC3HD5V	HE RED	625	DIFFUSED	-	-	5	30	35	3HD5V-F
MPC3RD5V	RED	700	DIFFUSED	-	-	5	2	35	3RD5V-F
MPC3YD5V	YELLOW	590	DIFFUSED	-	-	5	20	35	3YD5V-F
<b>12 Volt</b>				<b>Data @ 12V</b>					
MPC3GC12V	GREEN	568	WATER CLEAR	-	-	12	40	20	3GC12V-F
MPC3GD12V	GREEN	568	DIFFUSED	-	-	12	25	35	3GD12V-F
MPC3HC12V	HE RED	625	WATER CLEAR	-	-	12	50	20	3HC12V-F
MPC3HD12V	HE RED	625	DIFFUSED	-	-	12	30	35	3HD12V-F
MPC3RC12V	RED	700	WATER CLEAR	-	-	12	6	20	3RC12V-F
MPC3RD12V	RED	700	DIFFUSED	-	-	12	2	35	3RD12V-F
MPC3YC12V	YELLOW	590	WATER CLEAR	-	-	12	40	20	3YC12V-F
MPC3YD12V	YELLOW	590	DIFFUSED	-	-	12	25	35	3YD12V-F

MPC3GD5V Bivar Inc. LED ASSEMBLY

STANDARD TOLERANCE ( UNLESS OTHERWISE SPECIFIED ) ±10% ALL VALUES      ANGULAR X° ± 5°		 <b>BIVAR</b> <sup>®</sup> 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808    FAX: (949) 951-3974	
			
DESIGNED: <b>David Green</b>	DATE: <b>10/31/03</b>	<b>PART NO:</b> MPC3XX	
CHECKED: <b>M. Chen</b>	DATE: <b>10/31/03</b>	<b>CAGE CODE :</b> 32559	<b>SHEET # 4 OF 4</b>
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