

NOTES:

1. PARTS ARE SHIPPED NON-ASSEMBLED.
2. SEE SHEET 4 FOR PACKAGING PLAN.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	Engineering Release	7/11/2018	G.O.

PART NUMBER CONFIGURATION,

LPV4-XXXXX-XXX

LED COLOR (SEE PAGE 3)

LIGHT PIPE CALLOUT (SEE PAGE 2, TABLES A & B)



**FLAT FACE LENS**

DIMENSIONS ARE APPLICABLE TO BOTH LENS FACES UNLESS OTHERWISE NOTED



**DOME FACE LENS**



RECOMMENDED SOLDERING PATTERN

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: BIVAR LIGHT PIPE SYSTEM SAT VERTICAL, 4MM, SINGLE STATION	
.XX ± .02		DESIGNED: K. BARON	DATE: 07/11/18
.XXX ± .010		REVISION: N/A	DATE: N/A
		CHECKED: TD. NGUYEN	DATE: 07/11/18
		PART NO: LPV4-XXXXX-XXX	REVISION: B
		CAGE CODE: 32559	SCALE: 2:1
		SHEET # 1 OF 5	
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING			

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	See Sheet 1		

**STANDARD ORDERING INFORMATION**

TABLE A - FLAT FACE LENS	
PART NO.	H ± .01
LPV4-0350F-XXX	0.350 [8.9mm]
LPV4-0400F-XXX	0.400 [10.2mm]
LPV4-0450F-XXX	0.450 [11.4mm]
LPV4-0500F-XXX	0.500 [12.7mm]
LPV4-0550F-XXX	0.550 [14.0mm]
LPV4-0600F-XXX	0.600 [15.2mm]
LPV4-0750F-XXX	0.750 [19.1mm]
LPV4-1000F-XXX	1.000 [25.4mm]
LPV4-1250F-XXX	1.250 [31.8mm]
LPV4-1500F-XXX	1.500 [38.1mm]
LPV4-1750F-XXX	1.750 [44.5mm]
LPV4-2000F-XXX	2.000 [50.8mm]

TABLE B - DOME FACE LENS	
PART NO.	H ± .01
LPV4-0350D-XXX	0.350 [8.9mm]
LPV4-0400D-XXX	0.400 [10.2mm]
LPV4-0450D-XXX	0.450 [11.4mm]
LPV4-0500D-XXX	0.500 [12.7mm]
LPV4-0550D-XXX	0.550 [14.0mm]
LPV4-0600D-XXX	0.600 [15.2mm]
LPV4-0750D-XXX	0.750 [19.1mm]
LPV4-1000D-XXX	1.000 [25.4mm]
LPV4-1250D-XXX	1.250 [31.8mm]
LPV4-1500D-XXX	1.500 [38.1mm]
LPV4-1750D-XXX	1.750 [44.5mm]
LPV4-2000D-XXX	2.000 [50.8mm]

<b>BIVAR</b> <sup>®</sup>	
PART NO: LPV4-XXXXX-XXX	REVISION: B
SCALE: NONE	SHEET # 2 OF 5
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING	

Order Code XXX	Emitted Color	Peak Wave L.	Electro-Optical Data @20mA, 25°C				Polarity Diagram
		$\lambda_p$ [nm]	$V_f$ [V]			$I_v$ [mcd]	
		Chroma TYP	MIN	TYP	MAX	TYP	
R130	Red	640	1.7	2.0	2.5	130	FIGURE A
R480	Red	630	1.7	2.0	2.5	480	FIGURE B
A220	Amber	610	1.7	2.0	2.5	220	
O170	Orange	590	1.7	2.0	2.5	170	
Y50	Yellow	570	1.7	2.0	2.5	50	
G850	Green	520	2.8	3.2	3.7	850	
B150	Blue	465	2.8	3.2	3.7	150	
W305	White	X = 0.308 Y = 0.305	2.8	3.0	3.7	1750	FIGURE C
OY	Orange Yellow	590 572	1.7 1.7	2.0 2.0	2.5 2.5	190 60	
RY	Red Yellow	640 572	1.7 1.7	2.0 2.0	2.5 2.5	110 55	FIGURE D
RG	Red Green	640 520	1.7 2.8	2.0 3.2	2.5 3.7	200 810	FIGURE E
RW	Red White	630 X = 0.28 Y = 0.29	1.7 2.8	2.0 3.2	2.5 3.7	130 520	FIGURE F
RB	Red Blue	650 465	1.7 2.8	2.0 3.2	2.5 3.7	80 150	FIGURE G
RGB	Red Green Blue	643 515 460	1.7 2.8 2.8	2.0 3.3 3.3	2.5 3.7 3.7	95 730 120	FIGURE H



Note: 10% Duty Cycle, Pulse Width  $\leq$  0.1msec for Peak If.



**PACKAGING PLAN**

PARTS ARE SHIPPED IN QUANTITY OF 400 AS IN THE FOLLOWING:

1. ONE BAG CONTAINING FOUR LIGHT PIPE PACKAGES, 100 EACH, AND ONE LEVEL 4 MOISTURE SEALED TRAY WITH 400 SURFACE MOUNT ADAPTERS.
2. BAG SIZE IS APPROXIMATELY 16 X 18 INCHES (406.4 X 457.2 mm).
3. TRAY SIZE IS APPROXIMATELY 10 X 14 X 0.6 INCHES (254 X 355.6 X 15.2 mm), INCLUDING TOP COVER AND BOTTOM TRAY. ADAPTERS ARE ARRANGED AS SHOWN IN FIGURE 1.

10 ADAPTERS IN EACH POCKET



FIGURE 1  
BOTTOM TRAY  
4 X 10 POCKETS

<b>BIVAR</b> <sup>®</sup>		REVISION:
PART NO: LPV4-XXXXX-XXX		B
SCALE: NONE	SHEET # 4 OF 5	
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RECOMMENDED REFLOW SOLDERING PROFILE



NOTE:

1. DO NOT CLEAN AFTER SOLDERING. ONLY USE NO-CLEAN SOLDER PASTE.

<b>BIVAR</b> <sup>®</sup>		REVISION:
PART NO: LPV4-XXXXX-XXX		<b>B</b>
SCALE: NONE	<b>SHEET # 5 OF 5</b>	
<small>CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING</small>		