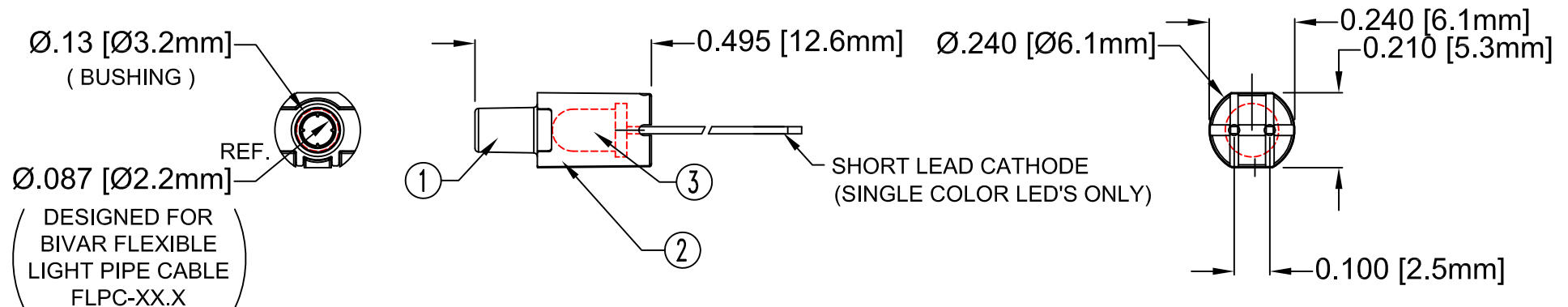


	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	PML3-1	FLEXIBLE LIGHT-PIPE HOLDER, BUSHING
2	1	PML3-2	FLEXIBLE LIGHT-PIPE HOLDER, BODY
3	1	3XX-XX-F	T-1 (3mm) LED FLANGED, SEE PAGE 2 & 3.

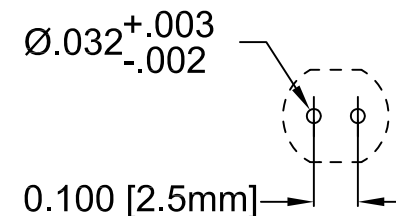
REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Release.	04/24/03	M. C.
B	ADDED FLPV-BC-A/G.	05/15/03	M. C.
C	Replace PML3, LED Holder, with PML3-12, corrected bicolor LED from 3BC-XX Series to 3BCC-XX series. Added 3SBCC-XX Series.	05/11/04	M. C.
D	Replaced 3UWC-0.6K-F with 3UWC1.035C-F	04/08/13	T. Y.



BI-COLOR LED'S



SHORT LEAD CATHODE	LED PART NO.	LONG LEAD CATHODE
RED	3xBCC-F	GREEN
YELLOW	3xBCC-Y/G-F	GREEN
RED	3xBCC-R/Y-F	YELLOW
AMBER	3xBCC-A/G-F	GREEN



RECOMMENDED FOOTPRINT

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)		BIVAR® 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS	ANGULAR		
.X ±.1	X° ± 1°		
.XX ±.02			
.XXX ±.010		TITLE: FLEXIBLE LIGHT PIPE ADAPTER, VERTICAL, W/LED	
DESIGNED: David Green	DATE: 04/30/03	PART NO: FLPV-XX	
CHECKED: M. Chen	DATE: 04/30/03	CAGE CODE : 32559	SHEET # 1 OF 3
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

LED Assy. No.	Emitted Color	Peak Wave Length λ_p (nm)	Lens Appearance	Absolute Max. Ratings			Electro-Optical Data @ 20mA			Viewing Angle $2\theta \frac{1}{2}$ (Deg)	LED P/N
				Pd (mW)	If (mA)	Peak If (mA)	Vf (V)		Iv (mcd)		
							Typ.	Max.	Typ.		
FLPV-SG	SUPER GREEN	568	WATER CLEAR	80	30	150	2.1	2.8	50	20	3SGC-F
FLPV-SY	SUPER YELLOW	590	WATER CLEAR	85	30	150	2.0	2.8	50	20	3SYC-F
FLPV-SA	SUPER AMBER	605	WATER CLEAR	100	30	150	1.8	2.4	300	20	3SAC-F
FLPV-SR	SUPER RED	645	WATER CLEAR	70	30	150	1.7	2.4	60	20	3SRC-F

LED Assy. No.	Emitted Color	Peak Wave Length λ_p (nm)	Lens Appearance	Absolute Max. Ratings			Electro-Optical Data @ 20mA			Viewing Angle $2\theta \frac{1}{2}$ (Deg)	LED P/N
				Pd (mW)	If (mA)	Peak If (mA)	Vf (V)		Iv (mcd)		
							Typ.	Max.	Typ.		
FLPV-UBW.6K	BLUE	470	WATER CLEAR	150	25	70	4.0	4.5	400	20	3UBWC-0.6K-F
FLPV-UT	TURQUOISE	500	WATER CLEAR	70	30	150	3.5	4.0	800	20	3UTC-F
FLPV-UG	GREEN	570	WATER CLEAR	100	30	150	2.1	2.4	200	20	3UGC-F
FLPV-SUG	GREEN	570	WATER CLEAR	100	30	150	2.1	2.4	300	20	3SUGC-F
FLPV-UY	YELLOW	590	WATER CLEAR	85	30	150	2.0	2.4	300	20	3UYC-F
FLPV-SUY	YELLOW	590	WATER CLEAR	85	30	150	2.0	2.4	400	20	3SUYC-F
FLPV-UUY	YELLOW	590	WATER CLEAR	85	30	150	2.0	2.4	600	20	3UUYC-F
FLPV-UO	ORANGE	625	WATER CLEAR	100	30	150	1.8	2.4	300	20	3UOC-F
FLPV-SUO	ORANGE	625	WATER CLEAR	100	30	150	1.8	2.4	400	20	3SUOC-F
FLPV-UR	RED	645	WATER CLEAR	60	30	150	1.7	2.4	200	20	3URC-F
FLPV-SUR	RED	640	WATER CLEAR	70	30	150	1.8	2.4	200	20	3SURC-F
FLPV-UW.6K	WHITE	-	WATER CLEAR	120	30	100	3.4	3.8	1000	35	3UWC1.035C-F

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) $\pm 10\%$ ALL VALUES		 BIVAR [®] 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
ANGULAR $X^\circ \pm 5^\circ$			
DESIGNED: David Green	DATE: 04/30/03	TITLE: FLEXIBLE LIGHT-PIPE ADAPTER, VERTICAL, W/LED	
CHECKED: M. Chen	DATE: 04/30/03	PART NO: FLPV-XX	REVISION: D
		CAGE CODE : 32559	SHEET # 2 OF 3
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

LED Assy. No.	Emitted Color	Peak Wave Length λ_p (nm)	Lens Appearance	Absolute Max. Ratings			Electro-Optical Data @ 20mA			Viewing Angle $2\theta \pm \frac{1}{2}$ (Deg)	LED P/N
				Pd (mW)	If (mA)	Peak If (mA)	Vf (V)		Iv (mcd)		
							Typ.	Max.	Typ.		
FLPV-BC	HE RED	625	WATER CLEAR	80	30	150	2.0	2.8	8	40	3BCC-F
	GREEN	568		80	30	150	2.1	2.8	8		
FLPV-BC-Y/G	YELLOW	590	WATER CLEAR	80	30	150	2.0	2.8	6	40	3BCC-Y/G-F
	GREEN	568		80	30	150	2.1	2.8	8		
FLPV-BC-R/Y	HE RED	625	WATER CLEAR	80	30	150	2.0	2.8	8	40	3BCC-R/Y-F
	YELLOW	590		80	30	150	2.0	2.8	6		
FLPV-BC-A/G	AMBER	605	WATER CLEAR	80	30	150	2.0	2.8	6	40	3BCC-A/G-F
	GREEN	568		80	30	150	2.1	2.8	8		

LED Assy. No.	Emitted Color	Peak Wave Length λ_p (nm)	Lens Appearance	Absolute Max. Ratings			Electro-Optical Data @ 20mA			Viewing Angle $2\theta \pm \frac{1}{2}$ (Deg)	LED P/N
				Pd (mW)	If (mA)	Peak If (mA)	Vf (V)		Iv (mcd)		
							Typ.	Max.	Typ.		
FLPV-SBC	SUPER RED	645	WATER CLEAR	70	30	150	1.7	2.4	100	20	3SBCC-F
	HE GREEN	568		80	30	150	2.1	2.8	60		
FLPV-SBC-Y/G	SUPER YELLOW	585	WATER CLEAR	85	20	160	2.1	2.4	15	40	3SBCC-Y/G-F
	HE GREEN	565		80	20	160	2.1	2.8	5		
FLPV-SBC-R/Y	SUPER RED	645	WATER CLEAR	70	30	150	1.7	2.4	100	20	3SBCC-R/Y-F
	SUPER YELLOW	590		85	30	150	2.0	2.4	300		

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) <u>±10% ALL VALUES</u>		ANGULAR X° ± 5°		BIVAR® 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
				TITLE: FLEXIBLE LIGHT-PIPE ADAPTER,VERTICAL, W/LED	
DESIGNED: David Green		DATE: 04/30/03		PART NO: FLPV-XX	
CHECKED: M. Chen		DATE: 04/30/03		REVISION D	
		CAGE CODE : 32559		SHEET # 3 OF 3	
CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.					