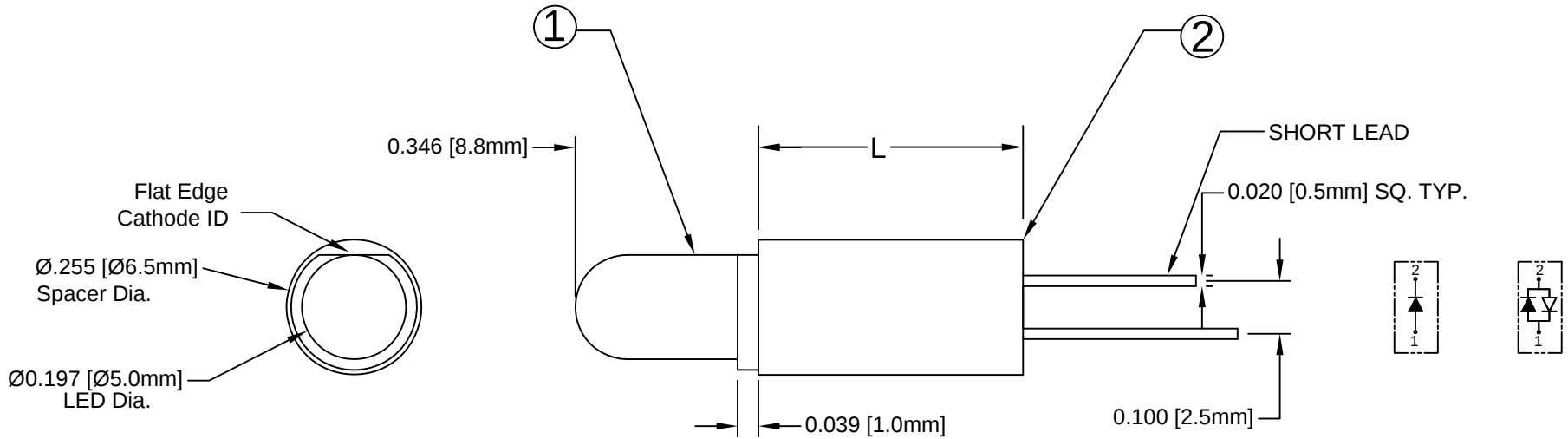
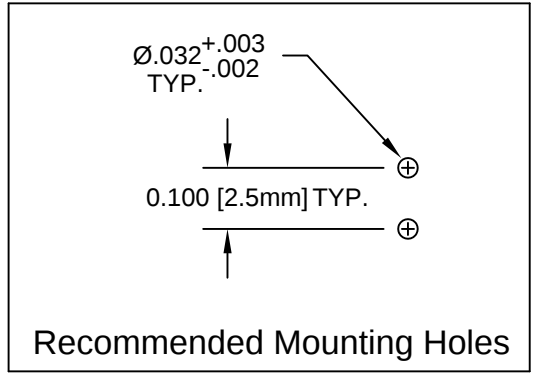


ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	5XX-F	T-1 ¾ (5mm) Flange LED, See sheet 2 & 3
2	1	ELM 3-XXX	Extruded, Self-Retaining LED Spacer

REV.	DESCRIPTION	DATE	APPROVED
C	Changed Spacer from ELM3 to ELM8.	01/17/07	M. C.
D	Added -F to Sheets 2 and 3.	01/04/08	M. C.
E	Removed Tolerance Note.	09/03/08	M. C.
F	Added Bi-Color LEDs on Sheet 3.	02/09/11	T. Y.
G	Added Tape & Reel Options.	06/07/11	T. Y.
H	Tape & Reel Design Update.	11/21/11	T. Y.
J	Corrected P/N Typo in BOM.	09/25/13	T. Y.
K	Engineering Update w/o Changes.	05/25/16	J. C.



BI-COLOR POLARITY		
LED P/N	(1) Cathode	(2) Cathode
5BC-F	Green	Red
5BC-Y/G-F	Green	Yellow



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	
<u>DECIMALS</u>	<u>ANGULAR</u>	 TITLE: Extruded Vertical T-1 ¾ (5mm) LED Standard Spacer Profile Assy	
.X ± .1	X° ± 1°		
.XX ± .02			
.XXX ± .010			
DESIGNED: S. Dam	DATE: 05/05/06	PART NO: ELM3XXX5XX	REVISION: K
CHECKED: T. Yin	DATE: 05/05/06	CAGE CODE : 32559	SHEET # 1 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		
ELM3XXX5BWC	GaN/SiC	430	BLUE	WATER CLEAR	25	4	4.5	25	20	5BWC-F
ELM3XXX5BWD	GaN/SiC	430	BLUE	DIFFUSED	25	4	4.5	15	45	5BWD-F
ELM3XXX5BWT	GaN/SiC	430	BLUE	TINTED	25	4	4.5	30	20	5BWT-F
ELM3XXX5GC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	40	35	5GC-F
ELM3XXX5GD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	25	45	5GD-F
ELM3XXX5GT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	40	35	5GT-F
ELM3XXX5PGC	GaP/GaP	555	PURE GREEN	WATER CLEAR	30	2.2	2.8	10	35	5PGC-F
ELM3XXX5PGD	GaP/GaP	555	PURE GREEN	DIFFUSED	30	2.2	2.8	10	45	5PGD-F
ELM3XXX5PGT	GaP/GaP	555	PURE GREEN	TINTED	30	2.2	2.8	10	35	5PGT-F
ELM3XXX5YC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2	2.8	40	35	5YC-F
ELM3XXX5YD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2	2.8	25	45	5YD-F
ELM3XXX5YT	GaAsP/GaP	590	YELLOW	TINTED	30	2	2.8	40	35	5YT-F
ELM3XXX5AC	GaAsP/GaP	605	AMBER	WATER CLEAR	30	2	2.8	40	35	5AC-F
ELM3XXX5AD	GaAsP/GaP	605	AMBER	DIFFUSED	30	2	2.8	25	45	5AD-F
ELM3XXX5AT	GaAsP/GaP	605	AMBER	TINTED	30	2	2.8	40	35	5AT-F
ELM3XXX5HC	GaAsP/GaP	625	HE RED	WATER CLEAR	30	2	2.8	40	35	5HC-F
ELM3XXX5HD	GaAsP/GaP	625	HE RED	DIFFUSED	30	2	2.8	25	45	5HD-F
ELM3XXX5HT	GaAsP/GaP	625	HE RED	TINTED	30	2	2.8	40	35	5HT-F
ELM3XXX5RC	GaP/GaP	700	RED	WATER CLEAR	20	2.1	2.8	2	35	5RC-F
ELM3XXX5RD	GaP/GaP	700	RED	DIFFUSED	20	2.1	2.8	2	45	5RD-F
ELM3XXX5RT	GaP/GaP	700	RED	TINTED	20	2.1	2.8	2	35	5RT-F
ELM3XXX5BC	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		
ELM3XXX5BC-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		 4 THOMAS, IRVINE, CA. 92618 TEL.: (949) 951-8808 FAX: (949) 951-3974	
		 TITLE: Extruded Vertical T-1 ¾ (5mm) LED Standard Spacer Profile Assy	
DESIGNED: S. Dam	DATE: 05/05/06	PART NO: ELM3XXX5XX	REVISION: K
CHECKED: T. Yin	DATE: 05/05/06	CAGE CODE : 32559	SHEET # 2 OF 4
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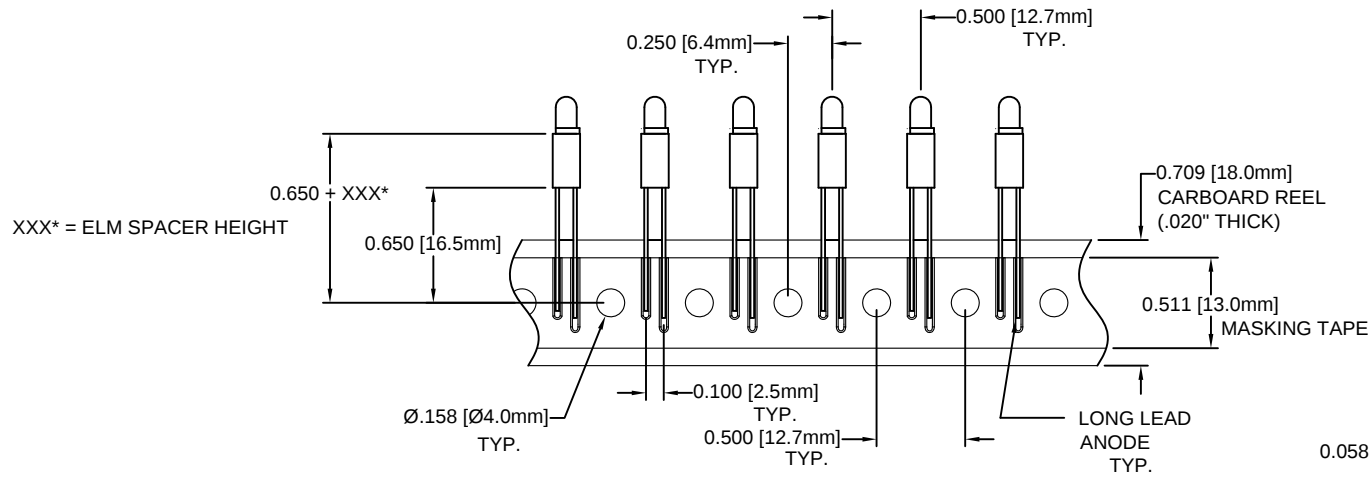
REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1		

LED Assy. No.	Peak Wave Length λ_p (nm)	Emitted Color	Lens Appearance	Max. Rating	Electro-Optical Data @ 2mA			Viewing Angle 2 θ $\frac{1}{2}$ (Deg)	LED P/N
				If (mA)	Vf (V)		Iv (mcd)		
				MAX	TYP	MAX	TYP		
ELM3XXX5BWDL	430	BLUE	DIFFUSED	7	3.8	4.2	4	40	5BWDL-F
ELM3XXX5PGDL	555	PURE GREEN	DIFFUSED	7	2.1	2.6	1	40	5PGDL-F
ELM3XXX5GDL	568	GREEN	DIFFUSED	7	2.1	2.6	4	40	5GDL-F
ELM3XXX5YDL	590	YELLOW	DIFFUSED	7	2.0	2.6	4	40	5YDL-F
ELM3XXX5ADL	605	AMBER	DIFFUSED	7	2.0	2.6	4	40	5ADL-F
ELM3XXX5HDL	625	HE RED	DIFFUSED	7	2.0	2.6	5	40	5HDL-F
ELM3XXX5SRDL	645	SUPER RED	DIFFUSED	7	1.7	2.3	6	40	5SRDL-F

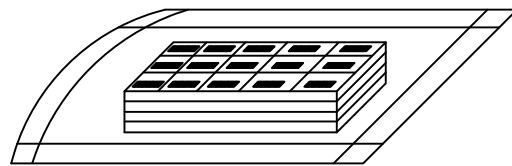
Assembly P/N	Peak Wave Length λp(nm)	Emitted Color	Lens Appearance	Electro-Optical Data				Viewing Angle 2 θ½ (Deg)	LED P/N
				If (mA)	Vf (V)		Iv (mcd)		
				MAX	TYP	MAX	TYP		
5 Volt				Data @ 5V					
ELM3XXX5GD5V	GREEN	568	DIFFUSED	-	-	5	25	40	5GD5V-F
ELM3XXX5AD5V	AMBER	605	DIFFUSED	-	-	5	25	40	5AD5V-F
ELM3XXX5HD5V	HE RED	625	DIFFUSED	-	-	5	30	40	5HD5V-F
ELM3XXX5RD5V	RED	700	DIFFUSED	-	-	5	1.5	40	5RD5V-F
ELM3XXX5YD5V	YELLOW	590	DIFFUSED	-	-	5	25	40	5YD5V-F

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) 10% All Values ANGULAR		 4 THOMAS, IRVINE, CA. 92618 TEL.: (949) 951-8808 FAX: (949) 951-3974	
		 TITLE: Extruded Vertical T-1 $\frac{3}{4}$ (5mm) LED Standard Spacer Profile Assy	
DESIGNED: S. Dam	DATE: 05/05/06	PART NO: ELM3XXX5XX	REVISION: K
CHECKED: T. Yin	DATE: 05/05/06	CAGE CODE : 32559	SHEET # 3 OF 4
CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.			

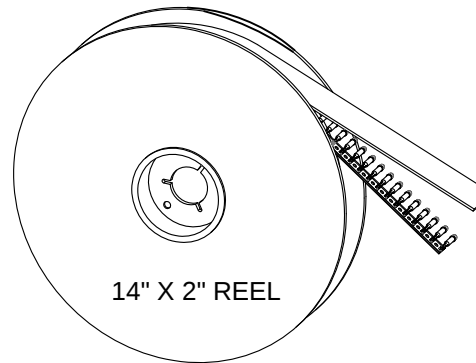
REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1		



DIRECTION OF FEED →

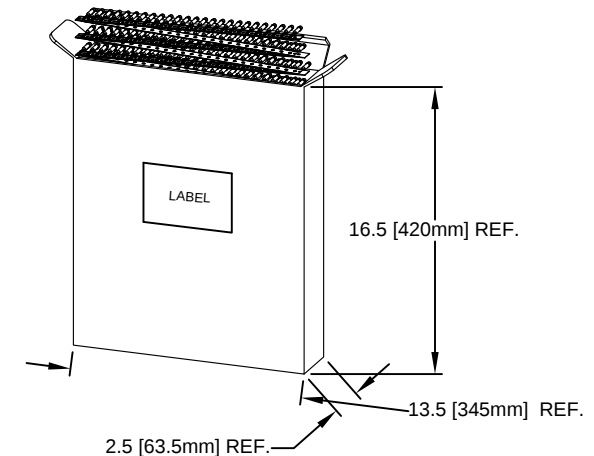


STANDARD PACKAGING TRAY



14" X 2" REEL

TAPE & REEL
1,000 pcs / reel



AMMO PACK
2,000 pcs / box

NOTE:

1. STANDARD PART NUMBERS ARE PACKAGED IN LOOSE PIECES USING PACKAGING TRAYS
2. ADD "T" SUFFIX TO PART NUMBER FOR TAPE AND REEL PACKAGING OPTION (1,000 PCS/REEL)
3. ADD "A" SUFFIX TO PART NUMBER FOR AMMO PACK OPTION (2,000 PCS/BOX)
4. TAPE AND REEL PACKAGING COMPLY TO EIA-468-C

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
<u>DECIMALS</u>	<u>ANGULAR</u>		
.X ± .1	X° ± 1°	TITLE: Extruded Vertical T-1 ¾ (5mm) LED Standard Spacer Profile Assy	
.XX ± .02			
.XXX ± .010		PART NO: ELM3XXX5XX	
DESIGNED: S. Dam	DATE: 05/05/06	REVISION K	
CHECKED: T. Yin	DATE: 05/05/06	CAGE CODE : 32559	SHEET # 4 OF 4
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Mouser Electronics

Authorized Distributor

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BIVAR:

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[ELM31505RD5V](#) [ELM315MM5RD](#) [ELM315MM5YD](#) [ELM31605BWD](#) [ELM31605GD](#) [ELM31605GDL](#) [ELM31605RD](#)
[ELM31605YD](#) [ELM318MM5RD](#) [ELM32005GD](#) [ELM32005YD](#) [ELM32205GD5V](#) [ELM32205HD5V](#) [ELM32205RD](#)
[ELM32205SRD](#) [ELM32205YD5V](#) [ELM32255RD](#) [ELM32305GD5V](#) [ELM32305RD5V](#) [ELM33005GD](#) [ELM33005RD](#)
[ELM33005YD](#) [ELM33055GDL](#) [ELM33055HDL](#) [ELM33055YDL](#) [ELM33105RD](#) [ELM33155RD](#) [ELM33205HDL](#)
[ELM33305GDL](#) [ELM33305HDL](#) [ELM33305YDL](#) [ELM33605GD](#) [ELM33605YD](#) [ELM33755GD](#) [ELM33755RD](#)
[ELM33755YD](#) [ELM33905YDL](#) [ELM33MM5GD](#) [ELM33MM5SRD](#) [ELM34005GD](#) [ELM34005RD](#) [ELM34205GD5V](#)
[ELM34205RD5V](#) [ELM34205YD5V](#) [ELM34255GD](#) [ELM35205YD](#) [ELM35605GD](#) [ELM36255RD](#) [ELM36305GD](#)
[ELM36305GDL](#) [ELM36305HDL](#) [ELM36305RD](#) [ELM36305YD](#) [ELM36305YDL](#) [ELM36605GD](#) [ELM36605RD](#)
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[ELM33755YT](#) [ELM33755GT](#)