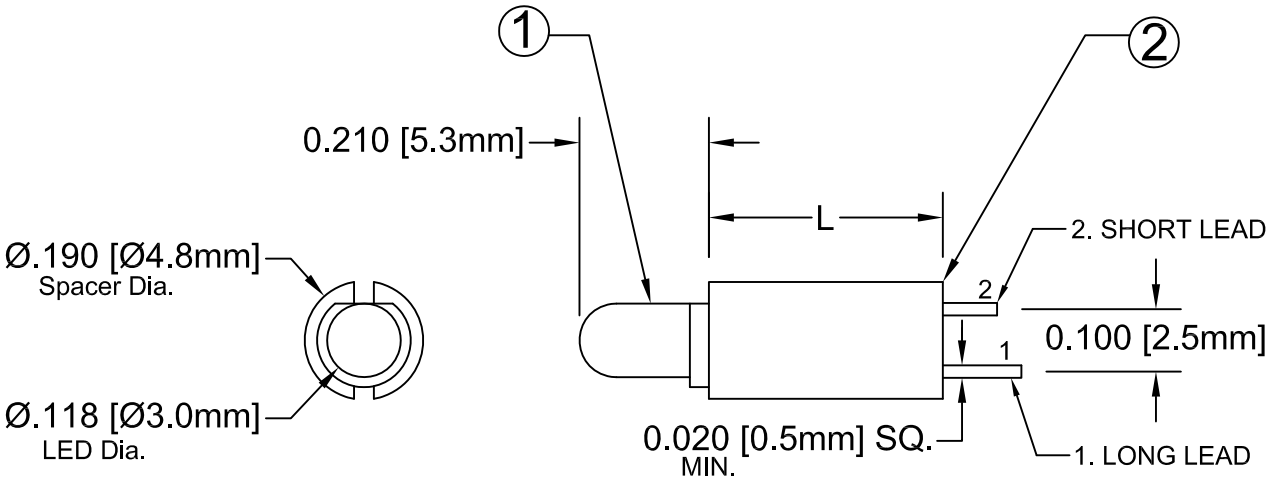
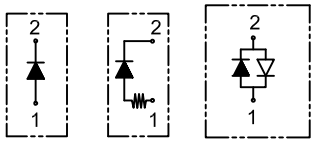
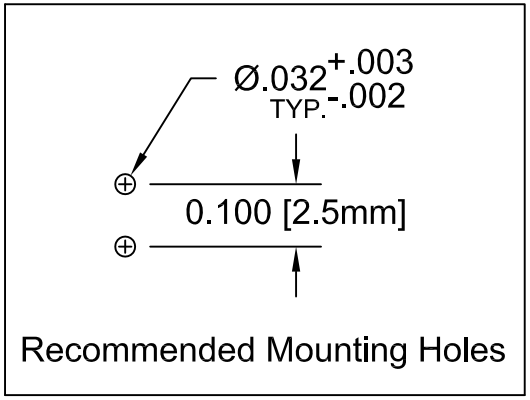
ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	3XX-F	T-1 (3mm) Flanged LED, See Page 2 to 4
2	1	ELM1XXX	Extruded, Self-Retaining LED Spacer

REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Release.	08/15/05	M. C.
B	Update LED, EMN-ELMXXXX3XX	08/22/06	M. C.
C	Corrected ELM Part Number on Page 2	10/11/06	M. C.
D	Removed Tolerance Note	09/03/06	M. C.
E	Added Bi-Color Polarity Diagram	03/29/10	T. Y.
F	Added Tape & Reel Option	06/01/11	T. Y.
G	Tape & Reel Design Update	11/21/11	T. Y.
H	LED Offering List Update	07/26/12	T. Y.





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



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

REVERSE VOLTAGE	5V
REVERSE CURRENT	100uA
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)

DECIMALS	ANGULAR
.X ± .1	X° ± 1°
.XX ± .02	
.XXX ± .010	

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TITLE: EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE SPACER ASSY

DESIGNED:	DATE:	PART NO:	REVISION:
Minh Doan	07/26/12	ELM1XXX3XX	H
CHECKED: T. Yin	DATE: 07/26/12	CAGE CODE : 32559	SHEET # 1 OF 5

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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

LED Assy. No.	Chip			Lens Appearance	Electro-Optical Data @ 20mA				Viewing Angle 2θ½ (Deg)	LED P/N
	Material	Peak Wave Length	Emitted Color		If (mA)	Vf (V)		Iv (mcd)		
					MAX	TYP	MAX	TYP		
ELM1XXX3BWC	GaN/SiC	430	BLUE	WATER CLEAR	25	4	4.5	15	20	3BWC-F
ELM1XXX3BWD	GaN/SiC	430	BLUE	DIFFUSED	25	4	4.5	10	35	3BWD-F
ELM1XXX3BWT	GaN/SiC	430	BLUE	TINTED	25	4	4.5	15	20	3BWT-F
ELM1XXX3GC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	40	20	3GC-F
ELM1XXX3GD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	25	35	3GD-F
ELM1XXX3GT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	40	20	3GT-F
ELM1XXX3PGC	GaP/GaP	555	PURE GREEN	WATER CLEAR	30	2.2	2.8	10	20	3PGC-F
ELM1XXX3PGD	GaP/GaP	555	PURE GREEN	DIFFUSED	30	2.2	2.8	5	35	3PGD-F
ELM1XXX3PGT	GaP/GaP	555	PURE GREEN	TINTED	30	2.2	2.8	10	20	3PGT-F
ELM1XXX3YC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2	2.8	40	20	3YC-F
ELM1XXX3YD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2	2.8	20	35	3YD-F
ELM1XXX3YT	GaAsP/GaP	590	YELLOW	TINTED	30	2	2.8	40	20	3YT-F
ELM1XXX3AC	GaAsP/GaP	605	AMBER	WATER CLEAR	30	2	2.8	40	20	3AC-F
ELM1XXX3AD	GaAsP/GaP	605	AMBER	DIFFUSED	30	2	2.8	25	35	3AD-F
ELM1XXX3AT	GaAsP/GaP	605	AMBER	TINTED	30	2	2.8	40	20	3AT-F
ELM1XXX3HC	GaAsP/GaP	625	HE RED	WATER CLEAR	30	2	2.8	50	20	3HC-F
ELM1XXX3HD	GaAsP/GaP	625	HE RED	DIFFUSED	30	2	2.8	30	35	3HD-F
ELM1XXX3HT	GaAsP/GaP	625	HE RED	TINTED	30	2	2.8	50	20	3HT-F
ELM1XXX3RC	GaP/GaP	700	RED	WATER CLEAR	20	2.1	2.8	2.5	35	3RC-F
ELM1XXX3RD	GaP/GaP	700	RED	DIFFUSED	20	2.1	2.8	2	20	3RD-F
ELM1XXX3RT	GaP/GaP	700	RED	TINTED	20	2.1	2.8	2.5	20	3RT-F
ELM1XXX3BC-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		
ELM1XXX3BC	GaAsP/GaP	625	RED	DIFFUSED	30	2.0	2.8	6	45	3BC-F
	GaP/GaP	568	GREEN		30	2.1	2.8	6		
ELM1XXX3BC-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		
ELM1XXX3BC-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 ANGULAR X° ± 5°

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TITLE: EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE SPACER ASSY

DESIGNED:	DATE:	PART NO:	REVISION:
Minh Doan	07/27/12	ELM1XXX3XX	H
CHECKED: T. Yin	DATE: 07/27/12	CAGE CODE : 32559	SHEET # 2 OF 5

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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

LED Assy. No.	Chip			Lens Appearance	Electro-Optical Data @ 20mA				Viewing Angle 2θ½ (Deg)	LED P/N
	Material	Peak Wave Length	Emitted Color		If (mA)	Vf (V)		Iv (mcd)		
					MAX	TYP	MAX	TYP		
ELM1XXX3UBWC	GaN/SiC	470	BLUE	WATER CLEAR	30	4	4.5	400	30	3UBWC-0.6K-F
ELM1XXX3SGC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	50	20	3SGC-F
ELM1XXX3SGD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	30	35	3SGD-F
ELM1XXX3SGT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	50	20	3SGT-F
ELM1XXX3SYC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2.0	2.8	50	20	3SYC-F
ELM1XXX3SYD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2.0	2.8	30	35	3SYD-F
ELM1XXX3SYT	GaAsP/GaP	590	YELLOW	TINTED	30	2.0	2.8	50	20	3SYT-F
ELM1XXX3SAC	AlGaInP	605	AMBER	WATER CLEAR	30	1.8	2.4	300	20	3SAC-F
ELM1XXX3SAD	AlGaInP	605	AMBER	DIFFUSED	30	1.8	2.4	100	35	3SAD-F
ELM1XXX3SAT	AlGaInP	605	AMBER	TINTED	30	1.8	2.4	300	20	3SAT-F
ELM1XXX3SRC	GaAlAs/GaAs	645	SUPER RED	WATER CLEAR	30	1.7	2.4	60	20	3SRC-F
ELM1XXX3SRD	GaAlAs/GaAs	645	SUPER RED	DIFFUSED	30	1.7	2.4	40	35	3SRD-F
ELM1XXX3SRT	GaAlAs/GaAs	645	SUPER RED	TINTED	30	1.7	2.4	60	20	3SRT-F
ELM1XXX3UGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	200	20	3UGC-F
ELM1XXX3SUGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	300	35	3SUGC-F
ELM1XXX3UYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	300	20	3UYC-F
ELM1XXX3SUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	400	20	3SUYC-F
ELM1XXX3UUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	600	35	3UUYC-F
ELM1XXX3UOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	300	20	3UOC-F
ELM1XXX3SUOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	400	20	3SUOC-F
ELM1XXX3URC	GaAlAs/GaAs	645	RED	WATER CLEAR	30	1.7	2.4	200	35	3URC-F
ELM1XXX3SURC	AlGaInP	640	RED	WATER CLEAR	30	1.8	2.4	200	20	3SURC-F
ELM1XXX3UWC	InGaN/Sappire	6500K	WHITE	WATER CLEAR	30	3.4	3.8	1000	35	3UWC1.030C-F

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TITLE: EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE SPACER ASSY

DESIGNED:	DATE:	PART NO:	REVISION:
Minh Doan	07/27/12	ELM1XXX3XX	H
CHECKED: T. Yin	DATE: 07/27/12	CAGE CODE : 32559	SHEET # 3 OF 5

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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) TYP	Vf (V) MAX	Iv (mcd) TYP		
ELM1XXX3BWDL	GaN/siC	430	BLUE	DIFFUSED	20	7	-	3.8	4.2	2.5	35	3BWDL-F
ELM1XXX3GDL	GaP/GaP	568	GREEN	DIFFUSED	10	7	-	2.1	2.6	4.0	35	3GDL-F
ELM1XXX3PGDL	GaP/GaP	555	PURE GREEN	DIFFUSED	10	7	-	2.1	2.6	0.2	35	3PGDL-F
ELM1XXX3YDL	GaAsP/GaP	590	YELLOW	DIFFUSED	10	7	-	2.0	2.6	2.0	35	3YDL-F
ELM1XXX3ADL	GaAsP/GaP	605	AMBER	DIFFUSED	10	7	-	2.0	2.6	4.0	35	3ADL-F
ELM1XXX3HDL	GaAsP/GaP	625	HE RED	DIFFUSED	10	7	-	2.0	2.6	2.5	35	3HDL-F
ELM1XXX3RDL	GaP/GaP	700	RED	DIFFUSED	10	7	-	2.1	2.6	0.5	35	3RDL-F
ELM1XXX3SRDL	GaAlAs/GaAs	645	RED	DIFFUSED	10	7	-	2.0	-	8.0	35	3SRDL-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) MAX	Vf (V) TYP	Vf (V) MAX	Iv (mcd) TYP		
5 Volt				**Data @ 5V**					
ELM1XXX3BWD5V	BLUE	430	DIFFUSED	-	-	5	10	35	3BWD5V-F
ELM1XXX3GC5V	GREEN	568	WATER CLEAR	-	-	5	40	20	3GC5V-F
ELM1XXX3GD5V	GREEN	568	DIFFUSED	-	-	5	25	35	3GD5V-F
ELM1XXX3GT5V	GREEN	568	TINTED	-	-	5	40	20	3GT5V-F
ELM1XXX3AD5V	AMBER	605	DIFFUSED	-	-	5	25	35	3AD5V-F
ELM1XXX3HD5V	HE RED	625	DIFFUSED	-	-	5	30	35	3HD5V-F
ELM1XXX3RD5V	RED	700	DIFFUSED	-	-	5	2	35	3RD5V-F
ELM1XXX3YD5V	YELLOW	590	DIFFUSED	-	-	5	20	35	3YD5V-F
12 Volt				**Data @ 12V**					
ELM1XXX3GC12V	GREEN	568	WATER CLEAR	-	-	12	40	20	3GC12V-F
ELM1XXX3GD12V	GREEN	568	DIFFUSED	-	-	12	25	35	3GD12V-F
ELM1XXX3HC12V	HE RED	625	WATER CLEAR	-	-	12	50	20	3HC12V-F
ELM1XXX3HD12V	HE RED	625	DIFFUSED	-	-	12	30	35	3HD12V-F
ELM1XXX3RC12V	RED	700	WATER CLEAR	-	-	12	6	20	3RC12V-F
ELM1XXX3RD12V	RED	700	DIFFUSED	-	-	12	2	35	3RD12V-F
ELM1XXX3YC12V	YELLOW	590	WATER CLEAR	-	-	12	40	20	3YC12V-F
ELM1XXX3YD12V	YELLOW	590	DIFFUSED	-	-	12	25	35	3YD12V-F

STANDARD TOLERANCE
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TITLE: EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE SPACER ASSY

DESIGNED:	DATE:	PART NO:	REVISION:
Minh Doan	07/27/12	ELM1XXX3XX	H
CHECKED: T. Yin	DATE: 07/27/12	CAGE CODE : 32559	SHEET # 4 OF 5

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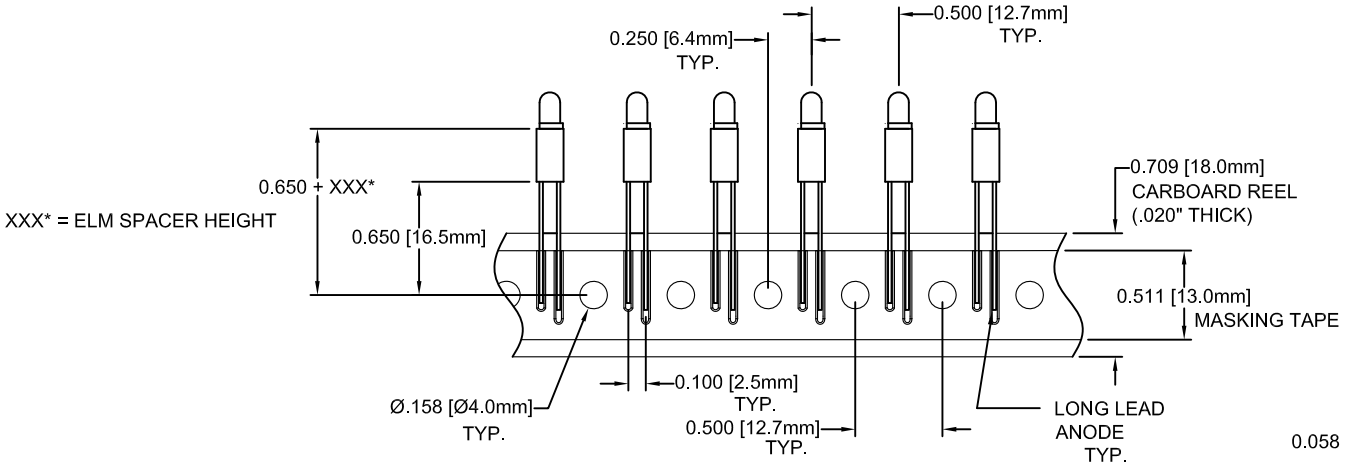
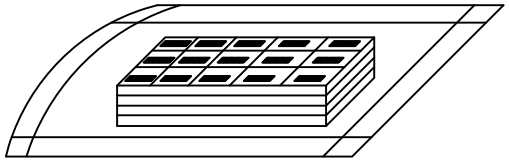
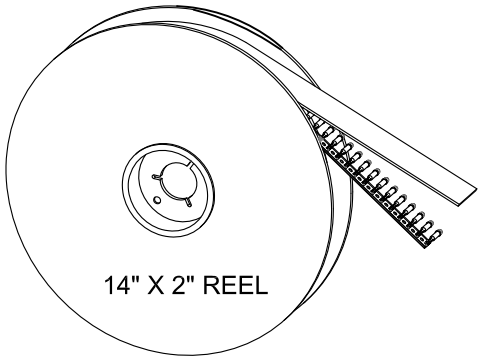
REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1		



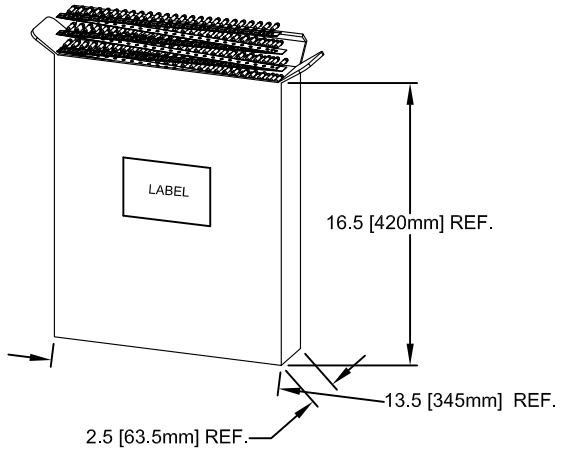
DIRECTION OF FEED →



STANDARD PACKAGING TRAY



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)

DECIMALS		ANGULAR
.X	± .1	X° ± 1°
.XX	± .02	
.XXX	± .010	

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DESIGNED: Ty Yin	DATE: 08/15/05	TITLE: EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE S{ACER ASSY	
CHECKED: M. Chen	DATE: 08/15/05	PART NO: ELM1XXX3XX	REVISION: H
		CAGE CODE : 32559	SHEET # 5 OF 5
		CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.	

LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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- *Тестирование поставляемой продукции.*
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- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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