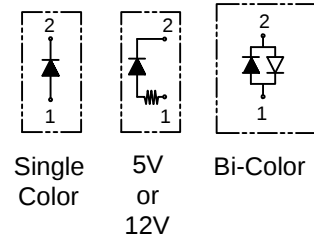
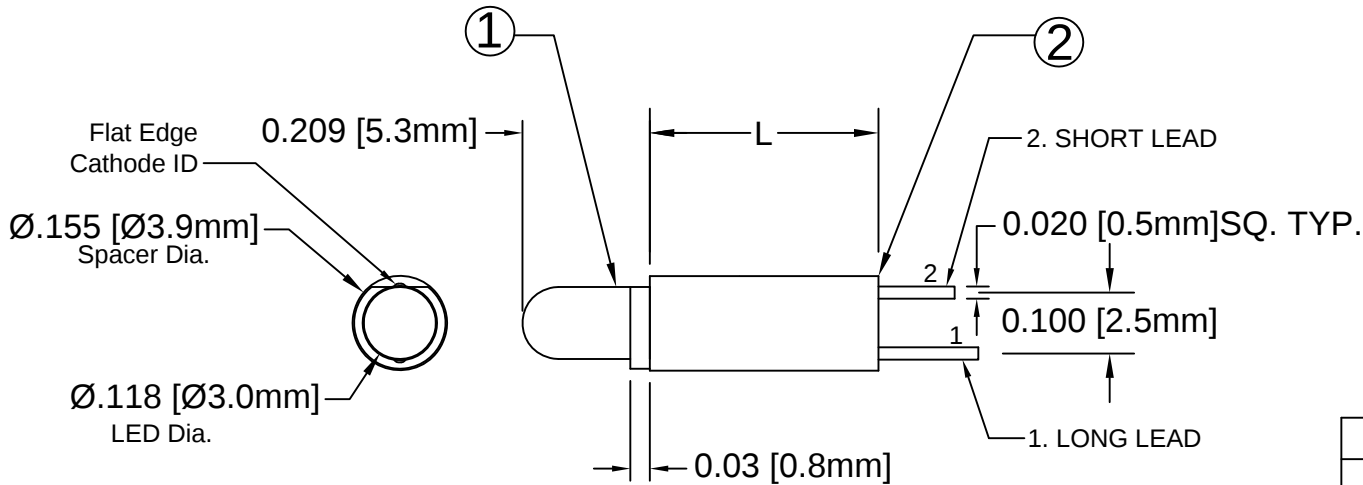
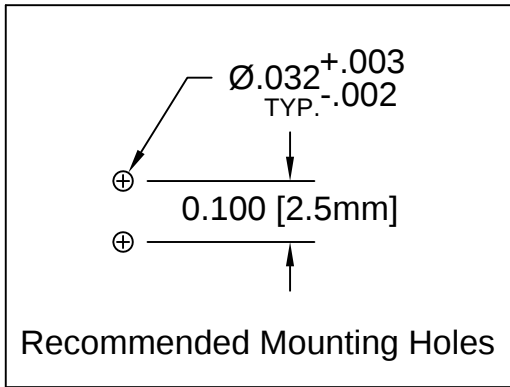


ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	3XX-F	T-1 (3mm) Flanged LED, See Pages 2 to 4
2	1	ELM 5-XXX	Extruded, Self-Retaining Narrow LED Spacer

REV.	DESCRIPTION	DATE	APPROVED
K	Added Bi-Color LED Polarity Diagram	03/29/10	T. Y.
L	Added Tape & Reel Options	06/07/11	T. Y.
M	Tape & Reel Design Update	11/21/11	T. Y.
N	LED Offering List Update	07/27/12	T. Y.
P	Corrected LED Typo	08/09/13	T. Y.
R	Corrected P/N Typo in BOM	09/19/13	T. Y.
T	Updated LED Optical Characteristics	09/12/15	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



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)		BIVAR® 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
<u>DECIMALS</u>	<u>ANGULAR</u>		
.X ± .1	X° ± 1°		
.XX ± .02			TITLE: EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE SPACER ASSY
.XXX ± .010			
DESIGNED: Minh Doan	DATE: 07/27/12	PART NO: ELM5XXX3XX	
CHECKED: T. Yin	DATE: 07/27/12	REVISION: T	
		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 2 θ ½ (Deg)	LED P/N
	Material	Peak Wave Length	Emitted Color		If (mA)	Vf (V)		Iv (mcd)		
						MAX	TYP	MAX		
ELM5XXX3BWC	GaN/SiC	430	BLUE	WATER CLEAR	25	4	4.5	15	20	3BWC-F
ELM5XXX3BWD	GaN/SiC	430	BLUE	DIFFUSED	25	4	4.5	10	35	3BWD-F
ELM5XXX3BWT	GaN/SiC	430	BLUE	TINTED	25	4	4.5	15	20	3BWT-F
ELM5XXX3GC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	40	20	3GC-F
ELM5XXX3GD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	25	35	3GD-F
ELM5XXX3GT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	40	20	3GT-F
ELM5XXX3PGC	GaP/GaP	555	PURE GREEN	WATER CLEAR	30	2.2	2.8	10	20	3PGC-F
ELM5XXX3PGD	GaP/GaP	555	PURE GREEN	DIFFUSED	30	2.2	2.8	5	35	3PGD-F
ELM5XXX3PGT	GaP/GaP	555	PURE GREEN	TINTED	30	2.2	2.8	10	20	3PGT-F
ELM5XXX3YC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2	2.8	40	20	3YC-F
ELM5XXX3YD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2	2.8	20	35	3YD-F
ELM5XXX3YT	GaAsP/GaP	590	YELLOW	TINTED	30	2	2.8	40	20	3YT-F
ELM5XXX3AC	GaAsP/GaP	605	AMBER	WATER CLEAR	30	2	2.8	40	20	3AC-F
ELM5XXX3AD	GaAsP/GaP	605	AMBER	DIFFUSED	30	2	2.8	25	35	3AD-F
ELM5XXX3AT	GaAsP/GaP	605	AMBER	TINTED	30	2	2.8	40	20	3AT-F
ELM5XXX3HC	GaAsP/GaP	625	HE RED	WATER CLEAR	30	2	2.8	50	20	3HC-F
ELM5XXX3HD	GaAsP/GaP	625	HE RED	DIFFUSED	30	2	2.8	30	35	3HD-F
ELM5XXX3HT	GaAsP/GaP	625	HE RED	TINTED	30	2	2.8	50	20	3HT-F
ELM5XXX3RC	GaP/GaP	700	RED	WATER CLEAR	20	2.1	2.8	2.5	35	3RC-F
ELM5XXX3RD	GaP/GaP	700	RED	DIFFUSED	20	2.1	2.8	2	20	3RD-F
ELM5XXX3RT	GaP/GaP	700	RED	TINTED	20	2.1	2.8	2.5	20	3RT-F
ELM5XXX3BC-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		
ELM5XXX3BC	GaAsP/GaP	625	RED	DIFFUSED	30	2.0	2.8	6	45	3BC-F
	GaP/GaP	568	GREEN		30	2.1	2.8	6		
ELM5XXX3BC-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		
ELM5XXX3BC-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) <u>±10% ALL VALUES</u> <u>ANGULAR</u> X° ± 5°		 4 THOMAS, IRVINE, CA. 92618 TEL.: (949) 951-8808 FAX: (949) 951-3974	
DESIGNED: Minh Doan		DATE: 07/27/12	
CHECKED: T. Yin		DATE: 07/27/12	
		PART NO: ELM5XXX3XX	REVISION: T
		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 2 θ ½ (Deg)	LED P/N
	Material	Peak Wave Length	Emitted Color		If (mA)	Vf (V)		Iv (mcd)		
						MAX	TYP			
ELM5XXX3UBWC	GaN/SiC	470	BLUE	WATER CLEAR	30	4	4.5	400	30	3UBWC-0.6K-F
ELM5XXX3SGC	GaP/GaP	568	GREEN	WATER CLEAR	30	2.1	2.8	50	20	3SGC-F
ELM5XXX3SGD	GaP/GaP	568	GREEN	DIFFUSED	30	2.1	2.8	30	35	3SGD-F
ELM5XXX3SGT	GaP/GaP	568	GREEN	TINTED	30	2.1	2.8	50	20	3SGT-F
ELM5XXX3SYC	GaAsP/GaP	590	YELLOW	WATER CLEAR	30	2.0	2.8	50	20	3SYC-F
ELM5XXX3SYD	GaAsP/GaP	590	YELLOW	DIFFUSED	30	2.0	2.8	30	35	3SYD-F
ELM5XXX3SYT	GaAsP/GaP	590	YELLOW	TINTED	30	2.0	2.8	50	20	3SYT-F
ELM5XXX3SAC	AlGaInP	605	AMBER	WATER CLEAR	30	1.8	2.4	300	20	3SAC-F
ELM5XXX3SAD	AlGaInP	605	AMBER	DIFFUSED	30	1.8	2.4	100	35	3SAD-F
ELM5XXX3SAT	AlGaInP	605	AMBER	TINTED	30	1.8	2.4	300	20	3SAT-F
ELM5XXX3SRC	GaAlAs/GaAs	645	SUPER RED	WATER CLEAR	30	1.7	2.4	60	20	3SRC-F
ELM5XXX3SRD	GaAlAs/GaAs	645	SUPER RED	DIFFUSED	30	1.7	2.4	40	35	3SRD-F
ELM5XXX3SRT	GaAlAs/GaAs	645	SUPER RED	TINTED	30	1.7	2.4	60	20	3SRT-F
ELM5XXX3UGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	200	20	3UGC-F
ELM5XXX3SUGC	AlGaInP	570	GREEN	WATER CLEAR	30	2.1	2.4	300	35	3SUGC-F
ELM5XXX3UYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	300	20	3UYC-F
ELM5XXX3SUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	400	20	3SUYC-F
ELM5XXX3UUYC	AlGaInP	590	YELLOW	WATER CLEAR	30	2.0	2.4	600	35	3UUYC-F
ELM5XXX3UOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	300	20	3UOC-F
ELM5XXX3SUOC	AlGaInP	625	ORANGE	WATER CLEAR	30	1.8	2.4	400	20	3SUOC-F
ELM5XXX3URC	GaAlAs/GaAs	645	RED	WATER CLEAR	30	1.7	2.4	200	35	3URC-F
ELM5XXX3SURC	AlGaInP	640	RED	WATER CLEAR	30	1.8	2.4	200	20	3SURC-F
ELM5XXX3UWC	InGaN/Sappire	6500K	WHITE	WATER CLEAR	30	3.2	3.6	6000	35	3UWC1.035C-F

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) <u>±10% ALL VALUES</u> <u>ANGULAR</u> X° ± 5°		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
		TITLE: EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE SPACER ASSY	
DESIGNED: Minh Doan	DATE: 07/27/12	PART NO: ELM5XXX3XX	REVISION: T
CHECKED: T. Yin	DATE: 07/27/12	CAGE CODE : 32559	SHEET # 3 OF 5
CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.			

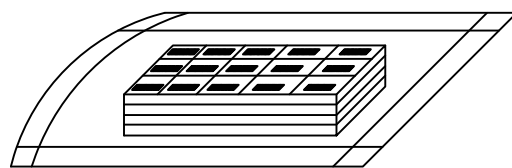
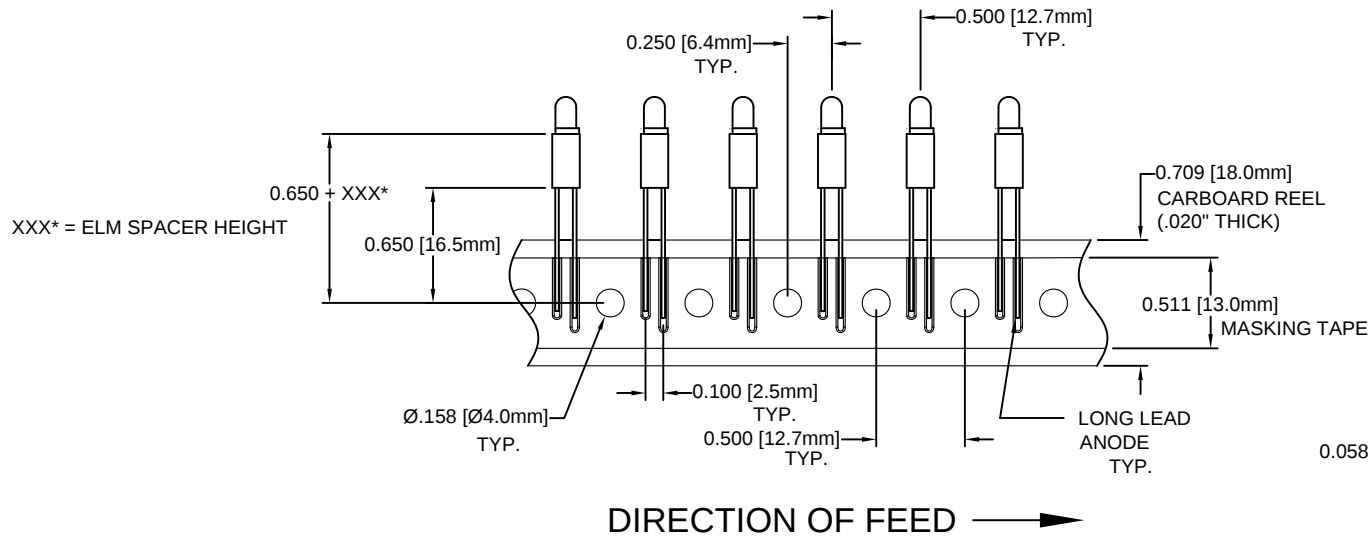
REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1.		

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		
ELM5XX3BWDL	GaN/siC	430	BLUE	DIFFUSED	20	7	-	3.8	4.2	2.5	35	3BWDL-F
ELM5XX3GDL	GaP/GaP	568	GREEN	DIFFUSED	10	7	-	2.1	2.6	4.0	35	3GDL-F
ELM5XX3PGDL	GaP/GaP	555	PURE GREEN	DIFFUSED	10	7	-	2.1	2.6	0.2	35	3PGDL-F
ELM5XX3YDL	GaAsP/GaP	590	YELLOW	DIFFUSED	10	7	-	2.0	2.6	2.0	35	3YDL-F
ELM5XX3ADL	GaAsP/GaP	605	AMBER	DIFFUSED	10	7	-	2.0	2.6	4.0	35	3ADL-F
ELM5XX3HDL	GaAsP/GaP	625	HE RED	DIFFUSED	10	7	-	2.0	2.6	2.5	35	3HDL-F
ELM5XX3RDL	GaP/GaP	700	RED	DIFFUSED	10	7	-	2.1	2.6	0.5	35	3RDL-F
ELM5XX3SRDL	GaAlAs/GaAs	645	RED	DIFFUSED	10	7	-	2.0	-	8.0	35	3SRDL-F

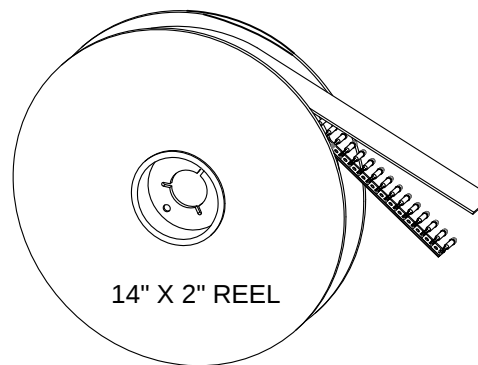
LED Assy. No.	Peak Wave Length λp(nm)	Emitted Color	Lens Appearance	Electro-Optical Data				Viewing Angle 2 θ½ (Deg)	LED P/N
				If (mA)	Vf (V)		Iv (mcd)		
				MAX	TYP	MAX	TYP		
5 Volt				Data @ 5V					
ELM5XXX3BWD5V	BLUE	430	DIFFUSED	-	-	5	10	35	3BWD5V-F
ELM5XXX3GC5V	GREEN	568	WATER CLEAR	-	-	5	40	20	3GC5V-F
ELM5XXX3GD5V	GREEN	568	DIFFUSED	-	-	5	25	35	3GD5V-F
ELM5XXX3GT5V	GREEN	568	TINTED	-	-	5	40	20	3GT5V-F
ELM5XXX3AD5V	AMBER	605	DIFFUSED	-	-	5	25	35	3AD5V-F
ELM5XXX3HD5V	HE RED	625	DIFFUSED	-	-	5	30	35	3HD5V-F
ELM5XXX3RD5V	RED	700	DIFFUSED	-	-	5	2	35	3RD5V-F
ELM5XXX3YD5V	YELLOW	590	DIFFUSED	-	-	5	20	35	3YD5V-F
12 Volt				Data @ 12V					
ELM5XXX3GC12V	GREEN	568	WATER CLEAR	-	-	12	40	20	3GC12V-F
ELM5XXX3GD12V	GREEN	568	DIFFUSED	-	-	12	25	35	3GD12V-F
ELM5XXX3HC12V	HE RED	625	WATER CLEAR	-	-	12	50	20	3HC12V-F
ELM5XXX3HD12V	HE RED	625	DIFFUSED	-	-	12	30	35	3HD12V-F
ELM5XXX3RC12V	RED	700	WATER CLEAR	-	-	12	6	20	3RC12V-F
ELM5XXX3RD12V	RED	700	DIFFUSED	-	-	12	2	35	3RD12V-F
ELM5XXX3YC12V	YELLOW	590	WATER CLEAR	-	-	12	40	20	3YC12V-F
ELM5XXX3YD12V	YELLOW	590	DIFFUSED	-	-	12	25	35	3YD12V-F

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) <u>±10% ALL VALUES</u> <u>ANGULAR</u> X° ± 5°		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
 		TITLE: EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE SPACER ASSY	
DESIGNED: Minh Doan	DATE: 07/27/12	PART NO: ELM5XXX3XX	REVISION: T
CHECKED: T. Yin	DATE: 07/27/12	CAGE CODE : 32559	SHEET # 4 OF 5
CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.			

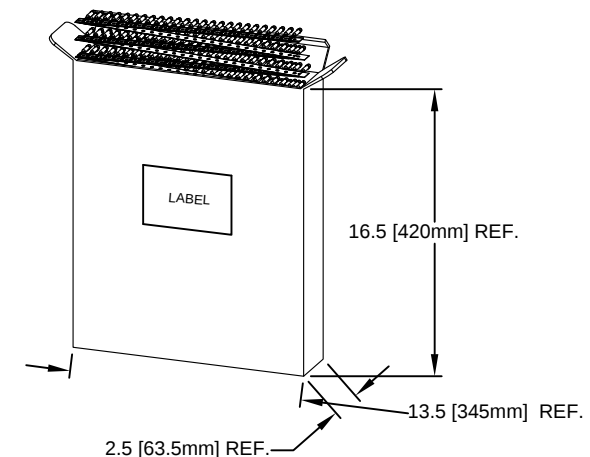
REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET #1.		



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)		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
<u>DECIMALS</u>	<u>ANGULAR</u>	 TITLE: EXTRUDED VERTICAL T-1 (3mm) LED STANDARD PROFILE SPACER ASSY	
.X ± .1	X° ± 1°		
.XX ± .02			
.XXX ± .010			
DESIGNED: Minh Doan	DATE: 07/27/12	PART NO: ELM5XXX3XX	REVISION T
CHECKED: T. Yin	DATE: 07/27/12	CAGE CODE : 32559	SHEET # 5 OF 5
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Mouser Electronics

Authorized Distributor

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BIVAR:

[ELM50303GD](#) [ELM50403YD](#) [ELM50503GD](#) [ELM50503GDL](#) [ELM50603GD](#) [ELM50603GDL](#) [ELM50603HDL](#)
[ELM50603YDL](#) [ELM50703GD](#) [ELM50703RD](#) [ELM50703YD](#) [ELM50753GD](#) [ELM50753YD](#) [ELM50803GD](#)
[ELM50903RD](#) [ELM51003GD](#) [ELM51003GDL](#) [ELM51003HD](#) [ELM51003HDL](#) [ELM51003RD](#) [ELM51003YD](#)
[ELM51003YDL](#) [ELM51053HDL](#) [ELM510MM3GD](#) [ELM510MM3GDL](#) [ELM510MM3HD](#) [ELM510MM3HDL](#)
[ELM510MM3RD](#) [ELM510MM3YD](#) [ELM510MM3YDL](#) [ELM51103HDL](#) [ELM51153GD](#) [ELM51153HD](#) [ELM51203GD](#)
[ELM51203GDL](#) [ELM51203HD](#) [ELM51203YDL](#) [ELM51205GD](#) [ELM51253GD](#) [ELM51253RD](#) [ELM512MM3GD](#)
[ELM512MM3GDL](#) [ELM512MM3HDL](#) [ELM512MM3YDL](#) [ELM51353GD](#) [ELM51403BC](#) [ELM51403GD](#) [ELM51403RD](#)
[ELM51403YD](#) [ELM51453HDL](#) [ELM51503GD](#) [ELM51503GDL](#) [ELM51503HD](#) [ELM51503HDL](#) [ELM51503YDL](#)
[ELM51553GD](#) [ELM51553YD](#) [ELM515MM3BC](#) [ELM515MM3GD](#) [ELM515MM3GDL](#) [ELM515MM3HDL](#)
[ELM515MM3RD](#) [ELM515MM3YD](#) [ELM51603GDL](#) [ELM51603HDL](#) [ELM51603RDL](#) [ELM51603YDL](#) [ELM51703BC-](#)
[Y/G](#) [ELM51703GD](#) [ELM51703HD](#) [ELM51703SRD](#) [ELM51803YDL](#) [ELM51903GD](#) [ELM51903GDL](#) [ELM51903HD](#)
[ELM51903RD](#) [ELM51903YDL](#) [ELM519MM3GDL](#) [ELM519MM3HDL](#) [ELM519MM3YDL](#) [ELM52003GD](#) [ELM52003HD](#)
[ELM52003HDL](#) [ELM52003RD](#) [ELM52003YD](#) [ELM52053GD](#) [ELM52053RD](#) [ELM52053YD](#) [ELM520MM3GD](#)
[ELM520MM3RD](#) [ELM52153HD](#) [ELM52153RD](#) [ELM52303GDL](#) [ELM52303SRC](#) [ELM52353GD](#) [ELM52353HD](#)
[ELM52453GDL](#) [ELM52453HDL](#) [ELM52453YDL](#) [ELM52503BWD](#)