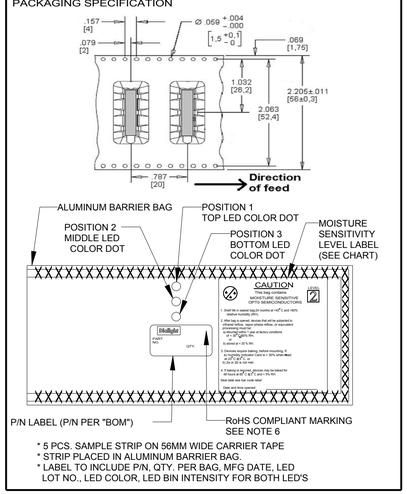
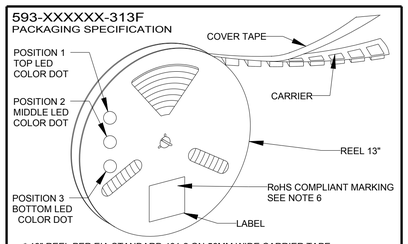
PART NUMBER	POSITION 1	POSITION 2	POSITION 3	MSL	PAD LAYOUT REFERENCE
593-101010-302F	RED 2mA	RED 2mA	RED 2mA	2	FIG. 1
593-101010-313F					
593-131313-302F	GREEN 2mA	GREEN 2mA	GREEN 2mA	2	FIG. 1
593-131313-313F					
593-141414-302F	YELLOW 2mA	YELLOW 2mA	YELLOW 2mA	2	FIG. 1
593-141414-313F					
593-151515-302F	ORANGE 2mA	ORANGE 2mA	ORANGE 2mA	2	FIG. 1
593-151515-313F					
593-202020-302F	RED	RED	RED	2	FIG. 1
593-202020-313F					
593-202024-302F	RED	RED	YELLOW	2	FIG. 1
593-202024-313F					
593-202324-302F	RED	GREEN	YELLOW	2	FIG. 1
593-202324-313F					
593-202326-302F	RED	GREEN	BLUE	2	FIG. 1
593-202326-313F					
593-203120-302F	RED	YELLOW GREEN	RED	2	FIG. 1 & FIG. 2
593-203120-313F					
593-212121-302F	AlGaAs RED	AlGaAs RED	AlGaAs RED	2	FIG. 1
593-212121-313F					
593-212130-302F	AlGaAs RED	AlGaAs RED	SUPER RED GREEN	2	FIG. 1 & FIG. 2
593-212130-313F					
593-212222-302F	AlGaAs RED	GREEN	GREEN	2	FIG. 1
593-212222-313F					
593-212226-302F	AlGaAs RED	GREEN	BLUE	2	FIG. 1
593-212226-313F					
593-212729-302F	AlGaAs RED	AlInGaP YELLOW	InGaN GREEN	2a	FIG. 1
593-212729-313F					
593-222222-302F	GREEN	GREEN	GREEN	2	FIG. 1
593-222222-313F					
593-222221-302F	GREEN	GREEN	AlGaAs RED	2	FIG. 1
593-222221-313F					
593-222721-302F	GREEN	AlInGaP YELLOW	AlGaAs RED	2	FIG. 1
593-222721-313F					
593-232323-302F	GREEN	GREEN	GREEN	2	FIG. 1
593-232323-313F					
593-232420-302F	GREEN	YELLOW	RED	2	FIG. 1
593-232420-313F					
593-232424-302F	GREEN	YELLOW	YELLOW	2	FIG. 1
593-232424-313F					
593-232627-302F	GREEN	BLUE	AlInGaP YELLOW	2	FIG. 1
593-232627-313F					
593-242320-302F	YELLOW	GREEN	RED	2	FIG. 1
593-242320-313F					
593-242424-302F	YELLOW	YELLOW	YELLOW	2	FIG. 1
593-242424-313F					
593-262626-302F	BLUE	BLUE	BLUE	2	FIG. 1
593-262626-313F					
593-272020-302F	AlInGaP YELLOW	RED	RED	2	FIG. 1
593-272020-313F					
593-272129-302F	AlInGaP YELLOW	AlGaAs RED	InGaN GREEN	2	FIG. 1
593-272129-313F					
593-272323-302F	AlInGaP YELLOW	GREEN	GREEN	2	FIG. 1
593-272323-313F					
593-272727-302F	AlInGaP YELLOW	AlInGaP YELLOW	AlInGaP YELLOW	2	FIG. 1
593-272727-313F					
593-282828-302F	WHITE	WHITE	WHITE	2	FIG. 1
593-282828-313F					
593-292627-302F	InGaN GREEN	BLUE	AlInGaP YELLOW	2a	FIG. 1
593-292627-313F					
593-292721-302F	InGaN GREEN	AlInGaP YELLOW	AlGaAs RED	2a	FIG. 1
593-292721-313F					
593-292727-302F	InGaN GREEN	AlInGaP YELLOW	AlInGaP YELLOW	2a	FIG. 1
593-292727-313F					
593-292929-302F	InGaN GREEN	InGaN GREEN	InGaN GREEN	2a	FIG. 1
593-292929-313F					
593-303030-302F	SUPER RED GREEN	SUPER RED GREEN	SUPER RED GREEN	2	FIG. 2
593-303030-313F					
593-303126-302F	SUPER RED GREEN	YELLOW GREEN	BLUE	2	FIG. 1 & FIG. 2
593-303126-313F					
593-312020-302F	YELLOW GREEN	RED	RED	2	FIG. 1 & FIG. 2
593-312020-313F					
593-313131-302F	YELLOW GREEN	YELLOW GREEN	YELLOW GREEN	2	FIG. 2
593-313131-313F					
593-323232-302F	SUPER-RED YELLOW	SUPER-RED YELLOW	SUPER-RED YELLOW	2	FIG. 2
593-323232-313F					
593-353535-302F	RED GREEN BLUE	RED GREEN BLUE	RED GREEN BLUE	2a	FIG. 2
593-353535-313F					

593-XXXXXX-302F
PACKAGING SPECIFICATION



* 5 PCS. SAMPLE STRIP ON 56MM WIDE CARRIER TAPE
* STRIP PLACED IN ALUMINUM BARRIER BAG.
* LABEL TO INCLUDE P/N, QTY. PER BAG, MFG DATE, LED LOT NO., LED COLOR, LED BIN INTENSITY FOR BOTH LED'S

593-XXXXXX-313F
PACKAGING SPECIFICATION

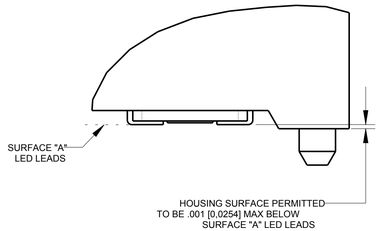


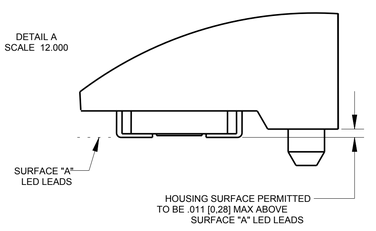
* 13" REEL PER EIA STANDARD 481-2 ON 56MM WIDE CARRIER TAPE
* QUANTITY = 150 Pcs/REEL IN VACUUM SEALED BAG
* LABEL AND COLOR DOTS ON REEL AND ON BAG
* LABEL TO INCLUDE P/N , QTY. PER BAG , MFG DATE LED LOT No , LED COLOR , LED BIN INTENSITY FOR ALL LED'S CORNER OF LABEL ON REEL INDICATES MOISTURE SENSITIVITY LEVEL ALUMINUM BARRIER BAG INCLUDES MSL LABEL

MULIT-COLOR LED PIN REFERENCES				
LED COLOR	PIN 1	PIN 2	PIN 3	PIN 4
R/Y BI-COLOR	RED CATHODE	RED ANODE	YELLOW ANODE	YELLOW CATHODE
Y/G BI-COLOR	YELLOW CATHODE	YELLOW ANODE	GREEN ANODE	GREEN CATHODE
R/G BI-COLOR	RED CATHODE	RED ANODE	GREEN ANODE	GREEN CATHODE
R/G/B TRI-COLOR	RED CATHODE	COMMON ANODE	GREEN CATHODE	BLUE CATHODE

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	———	NEW RELEASE	BP	———	NO	11-6-17
B	———	ADDED P/N: 593-27-2020-313F & 593-27-2020-302F ON THE CHART	LD	———	SK	6-6-18
C	———	REVISED COLOR OF PART NUMBERS TO FOLLOW THE CHART	LD	———	SK	6-21-18
D	———	ADDED A NOTE ON THE DWG TO INDICATE SILICONE LENS	LD	———	NO	7-20-18
E	———	REMOVED P/N 593-272129-801F, 593-272129-802F, 593-272727-803F, 593-272727-804F	LD	———	NO	7-23-18

RoHS COMPLIANT 593-XXXXXX-3XXF
Part Numbers with the "F" suffix ending are RoHS Compliant. Packaging is marked with "RoHS Compliant" label or equivalent markings.





OPERATING CHARACTERISTICS AT 25 °C AMBIENT								
COLOR CODE	COLOR		LUMINOUS INTENSITY	FORWARD VOLTAGE (V)			DOMINANT WAVELENGTH (nm)		
			TYP	TEST COND	TYP	MAX	MIN	TYP	MAX
10	RED 2mA		5 mcd @IF=2mA	IF = 2mA	1.7	2.2	624	630	636
13	GREEN 2mA		4 mcd @IF=2mA	IF = 2mA	1.7	2.2	566	570	575
14	YELLOW 2mA		4.3 mcd @IF=2mA	IF = 2mA	1.7	2.2	580	587	595
15	ORANGE 2mA		7 mcd @IF=2mA	IF = 2mA	1.7	2.2	600	606	609
20	RED		6 mcd @ IF=20mA	IF = 10mA	2.0	2.5	622	628	634
21	AlGaAs RED		19 mcd @IF=20mA	IF = 10mA	1.75	2.5	———	645	———
22	HI. INT. GREEN		10 mcd @IF=20mA	IF = 10mA	2.0	2.5	564	570	576
23	GREEN		9 mcd @ IF=20mA	IF = 10mA	2.0	2.5	564	570	576
24	YELLOW		8 mcd @ IF=20mA	IF = 10mA	2.0	2.5	580	587	595
26	BLUE		10 mcd @IF=20mA	IF = 10mA	3.1	3.7	465	471	477
27	AlInGaP YELLOW		36 mcd @IF=20mA	IF = 10mA	2.0	2.4	580	587	595
28	WHITE		62 mcd @IF=20mA	IF = 10mA	3.1	3.4	———	X .33 Y .33	———
29	InGaN GREEN		213 mcd @IF=20mA	IF = 20mA	3.7	4.3	———	525	———
30	RED/GREEN BI-COLOR	RED	11 mcd @IF=10mA	IF = 10mA	2.0	2.5	622	628	634
		GREEN	6 mcd @IF=10mA	IF = 10mA	2.0	2.5	564	570	576
31	YELLOW/GREEN BI-COLOR	YELLOW	13 mcd @IF=10mA	IF = 10mA	2.0	2.5	584	590	596
		GREEN	6 mcd @IF=10mA	IF = 10mA	2.0	2.5	564	570	576
32	RED/YELLOW BI-COLOR	RED	34 mcd @IF=20mA	IF = 20mA	2.0	2.3	627	633	639
		YELLOW	26 mcd @IF=20mA	IF = 20mA	2.0	2.4	580	587	595
35	RED/GRN/BLUE TRI-COLOR	RED	45 mcd @IF=20mA	IF = 20mA	1.9	2.4	———	626	———
		GREEN	114 mcd @IF=20mA	IF = 20mA	3.4	4.05	515	525	535
		BLUE	25 mcd @IF=20mA	IF = 20mA	3.4	4.05	460	470	480

NOTES:
1. PRODUCT P/N'S WITH "F" SUFFIX ENDING ARE RoHS COMPLIANT. LED LEADS ARE PLATED TIN (Sn) WITH NICKEL (Ni) UNDERPLATE ON COPPER (Cu) LEADS.
2. STORAGE OF TAPED PARTS SHALL NOT EXCEED TWELVE [12] MONTHS AFTER WHICH RE-PACKAGING IS REQUIRED.
3. FRONT AND REAR TERMINALS [OF EACH LED] OF THE ASSEMBLY TO BE WITHIN .005 COPLANARITY.
4. A MOISTURE SENSITIVITY LEVEL LABEL PLACED ON BAG. CHECK CHART FOR PROPER LEVEL
5. *** CAUTION *** FOR PRODUCTS THAT ARE ESD SENSITIVE, OBSERVE PRECAUTIONS IN HANDLING ELECTROSTATIC SENSITIVE DEVICES. FOR EYE SAFETY DO NOT STARE DIRECTLY INTO THE LIGHT BEAM OF THESE LED DEVICES AT CLOSE RANGE.
6. THIS PRODUCT IS RoHS COMPLIANT. EACH BAG IS MARKED WITH RoHS COMPLIANT LABEL OR EQUIVALENT MARKINGS. LED MUST BE Pb FREE (RoHS COMPLIANT).
7. DIALIGHT PART NUMBERS: 593-XXXXXX-302F (STRIP) 593-XXXXXX-313F (REEL)

RECOMMENDED RoHS COMPLIANT REFLOW PROFILE

FIG. 1 RECOMMENDED PAD LAYOUT - SINGLE COLOR LEDS

FOR MULTI-COLOR LED PIN REFERENCES, SEE TABLE

FIG. 2 RECOMMENDED PAD LAYOUT - MULTI-COLOR LEDS

SINGLE COLOR LED

SCALE 6.000

BI-COLOR LED & TRI-COLOR LED

ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

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SCALE: 6.000
ALL DIMS IN: INCHES (MM)
TOLERANCES: UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.01
DECIMALS (.XXX): ± .005
DECIMALS (.XXX): ± .0005
ANGLES: ±3°
FINISH: -
FSCM 83330

DRAWING NUMBER C-18320
REV E
TITLE TRI-LEVEL PRISM
MATERIAL RoHS COMPLIANT

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727

SHEET 1 OF 1 FAMILY TABLE: