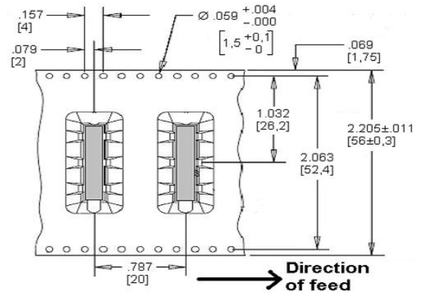
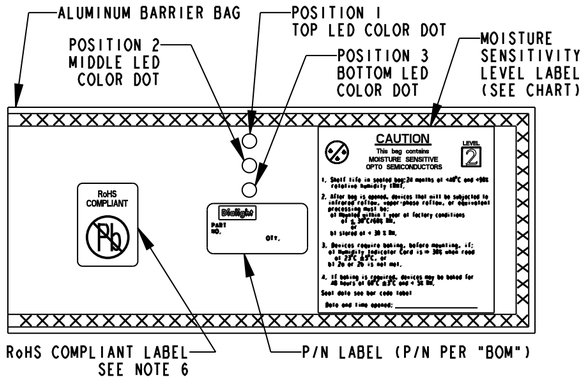
PART NUMBER	POSITION 1	POSITION 2	POSITION 3	MSL	PAD LAYOUT REFERENCE
593-202020-002F	RED	RED	RED	2	FIG. 1
593-202020-013F					
593-202024-002F	RED	RED	YELLOW	2	FIG. 1
593-202024-013F					
593-202324-002F	RED	GREEN	YELLOW	2	FIG. 1
593-202324-013F					
593-203120-002F	RED	YELLOW/ GREEN	RED	2	FIG. 1 & FIG. 2
593-203120-013F					
593-212121-002F	AlGaAs RED	AlGaAs RED	AlGaAs RED	2	FIG. 1
593-212121-013F					
593-212130-002F	AlGaAs RED	AlGaAs RED	SUPER-RED/ GREEN	2	FIG. 1 & FIG. 2
593-212130-013F					
593-222221-002F	HI. INT. GREEN	HI. INT. GREEN	AlGaAs RED	2	FIG. 1
593-222221-013F					
593-222222-002F	HI. INT. GREEN	HI. INT. GREEN	HI. INT. GREEN	2	FIG. 1
593-222222-013F					
593-232323-002F	GREEN	GREEN	GREEN	2	FIG. 1
593-232323-013F					
593-232424-002F	GREEN	YELLOW	YELLOW	2	FIG. 1
593-232424-013F					
593-232627-002F	GREEN	BLUE	AlInGaP YELLOW	2	FIG. 1
593-232627-013F					
593-242320-002F	YELLOW	GREEN	RED	2	FIG. 1
593-242320-013F					
593-242424-002F	YELLOW	YELLOW	YELLOW	2	FIG. 1
593-242424-013F					
593-262626-002F	BLUE	BLUE	BLUE	2	FIG. 1
593-262626-013F					
593-272129-002F	AlInGaP YELLOW	AlGaAs RED	InGaN GREEN	2a	FIG. 1
593-272129-013F					
593-272727-002F	AlInGaP YELLOW	AlInGaP YELLOW	AlInGaP YELLOW	2	FIG. 1
593-272727-013F					
593-282828-002F	WHITE	WHITE	WHITE	2	FIG. 1
593-282828-013F					
593-292929-002F	InGaN GREEN	InGaN GREEN	InGaN GREEN	2a	FIG. 1
593-292929-013F					
593-303030-002F	SUPER-RED/ GREEN	SUPER-RED/ GREEN	SUPER-RED/ GREEN	2	FIG. 2
593-303030-013F					
593-313131-002F	YELLOW/ GREEN	YELLOW/ GREEN	YELLOW/ GREEN	2	FIG. 2
593-313131-013F					
593-323232-002F	SUPER-RED/ YELLOW	SUPER-RED/ YELLOW	SUPER-RED/ YELLOW	2	FIG. 2
593-323232-013F					
593-353535-002F	BLUE/ GREEN/ RED	BLUE/ GREEN/ RED	BLUE/ GREEN/ RED	2a	FIG. 2
593-353535-013F					

OPERATING CHARACTERISTICS AT 25°C AMBIENT									
COLOR		LUMINOUS INTENSITY @If=20mA	FORWARD VOLTAGE (V)			DOMINANT WAVELENGTH (nm)			
		TYP	TEST COND	TYP	MAX	MIN	TYP	MAX	
RED		6 mcd	If = 10mA	2.0	2.5	622	628	634	
AlGaAs RED		29 mcd	If = 10mA	1.75	2.5	—	645	—	
HI. INT. GREEN		16 mcd	If = 10mA	2.0	2.5	564	570	576	
GREEN		11 mcd	If = 10mA	2.0	2.5	564	570	576	
YELLOW		11 mcd	If = 10mA	2.0	2.5	580	587	595	
BLUE		7 mcd	If = 10mA	3.5	4.2	462	465	468	
AlInGaP YELLOW		80 mcd	If = 10mA	2.0	2.4	580	587	595	
WHITE		85 mcd	If = 10mA	3.1	3.7	—	X .33 Y .33	—	
InGaN GREEN		150 mcd	If = 20mA	3.4	4.05	515	525	535	
RED/GREEN BI-COLOR	RED	7 mcd	If = 10mA	2.0	2.5	622	628	634	
	GREEN	10 mcd	If = 10mA	2.0	2.5	564	570	576	
YELLOW/GREEN BI-COLOR	YELLOW	6 mcd	If = 10mA	2.0	2.5	584	590	596	
	GREEN	10 mcd	If = 10mA	2.0	2.5	564	570	576	
RED/YELLOW BI-COLOR	RED	45 mcd	If = 20mA	2.0	2.3	627	633	639	
	YELLOW	70 mcd	If = 20mA	2.0	2.4	580	587	595	
RED/GRN/BLUE TRI-COLOR	RED	35 mcd	If = 20mA	1.9	2.4	—	626	—	
	GREEN	70 mcd	If = 20mA	3.4	4.05	515	525	535	
	BLUE	20 mcd	If = 20mA	3.4	4.05	460	470	480	

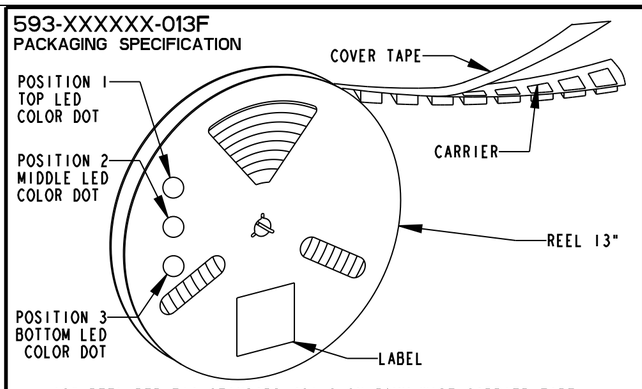
593-XXXXXX-002F
PACKAGING SPECIFICATION





- 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

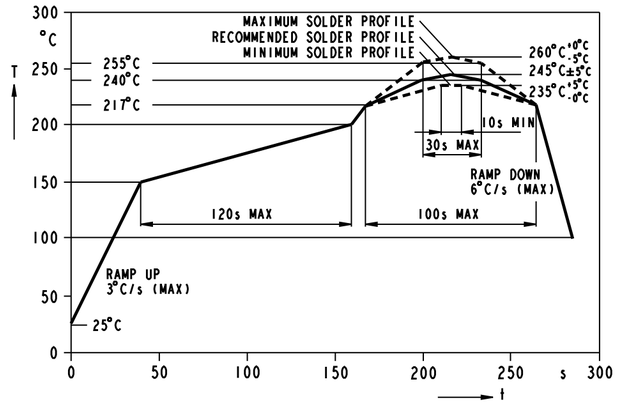
593-XXXXXX-013F
PACKAGING SPECIFICATION



- 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

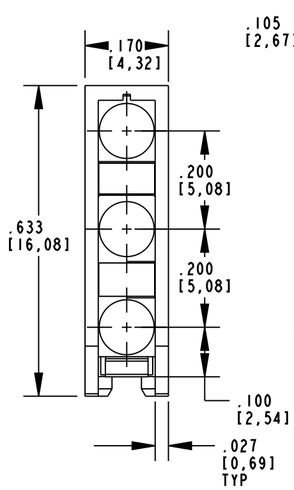
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	——	NEW RELEASE	00	N.O.	MS	3-28-07
B	——	ADDED P/N'S 593-222221-002F,-013F, 593-272129-002F,-013F,593-292929-002F,-013F, ADDED INTENSITY SPECS, ADDED PIN REFERENCES.	KLJ	N.O.	MES	3-24-08
C	——	ADDED P/N'S 593-242320-002F,-013F; AND 593-232424-002F,-013F; MSL FOR 593-292929-0XXF & 593-353535-0XXF WAS "2"; UPDATED SPECS; CHANGED NOTE 7.	KLJ	N.O.	MES	1-15-09
D	——	ADDED P/N'S 593-202324-002F, -013F.	KLJ	N.O.	MES	1-26-09
E	——	ADDED P/N'S 593-203120-002F, -013F.	KLJ	NO	MES	2-19-09
F	——	ADDED P/N'S 593-232627-002F, -013F.	AJF	KLJ	NO	7-1-09

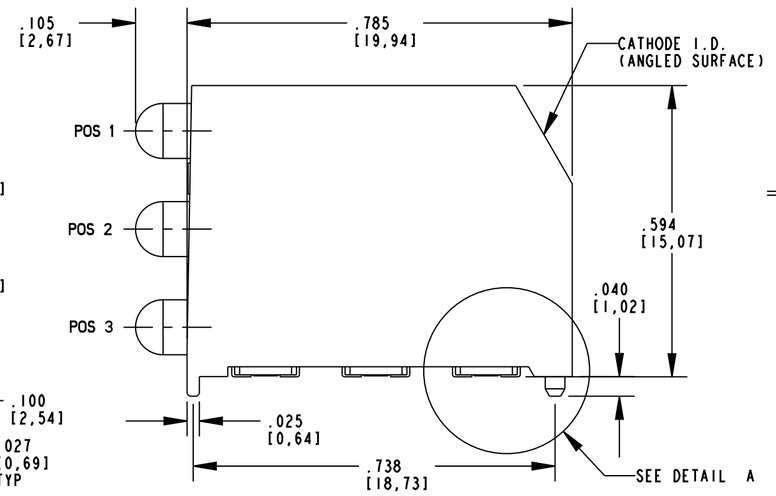


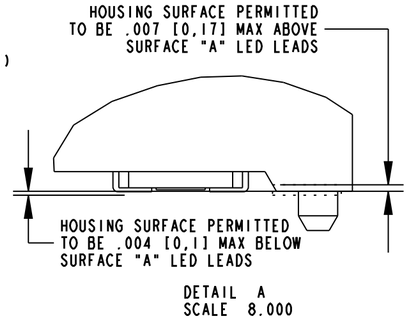
RECOMMENDED RoHS COMPLIANT REFLOW PROFILE

NOTES:

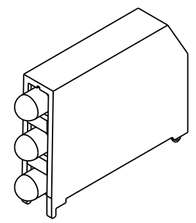
1. PRODUCT P/N'S WITH "F" SUFFIX ENDING ARE RoHS COMPLIANT. LED LEADS ARE PLATED TIN (Sn) WITH NICKEL (Ni) UNDERPLATE ON COPPER (Cu) LEADS.
2. STORAGE OF TAPED PARTS SHALL NOT EXCEED TWELVE [12] MONTHS AFTER WHICH RE-PACKAGING IS REQUIRED.
3. FRONT AND REAR TERMINALS [OF EACH LED] OF THE ASSEMBLY TO 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-002F (STRIP)
   593-XXXXXX-013F (REEL)



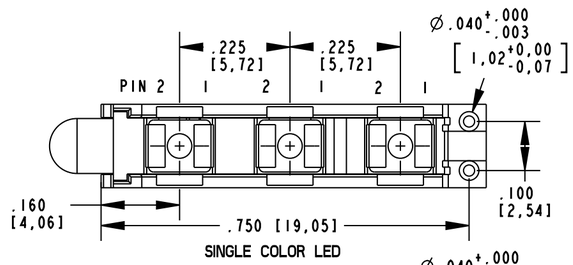




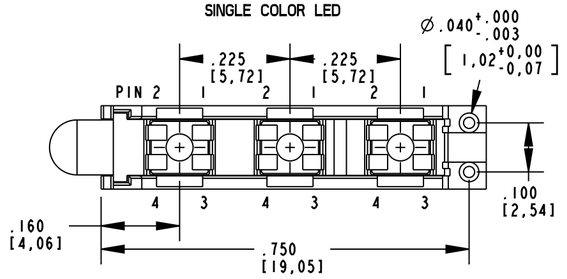
DETAIL A
SCALE 8.000



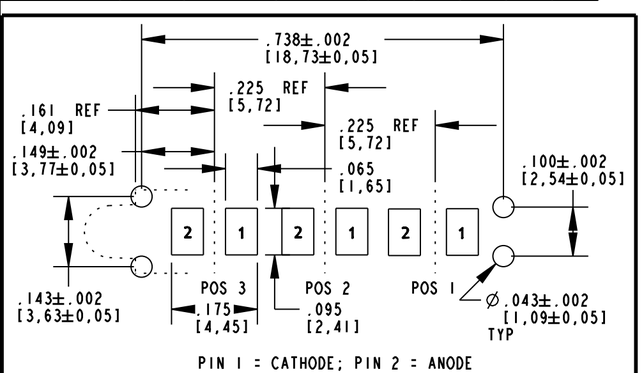
SCALE 2.000



SINGLE COLOR LED

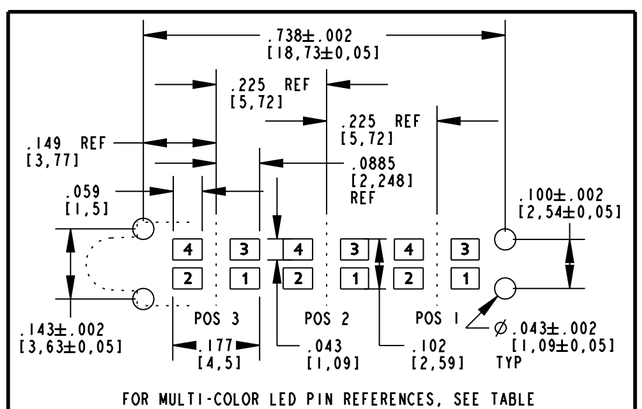


BI-COLOR LED & TRI-COLOR LED



PIN 1 = CATHODE; PIN 2 = ANODE

FIG. 1 RECOMMENDED PAD LAYOUT - SINGLE COLOR LEDS



FOR MULTI-COLOR LED PIN REFERENCES, SEE TABLE

FIG. 2 RECOMMENDED PAD LAYOUT - MULTI-COLOR LEDS

ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

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SCALE: 4.000
ALL DIM'S IN: INCHES (MM)
TOLERANCES: UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.02
DECIMALS (.XXX): ±.015
ANGLES: ±3°
FINISH: -
FSCM 83330

DRAWING NUMBER C-17270
REV F
TITLE TRI-LEVEL PRISM
MATERIAL RoHS COMPLIANT

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727

SHEET 1 OF 1
FAMILY TABLE: