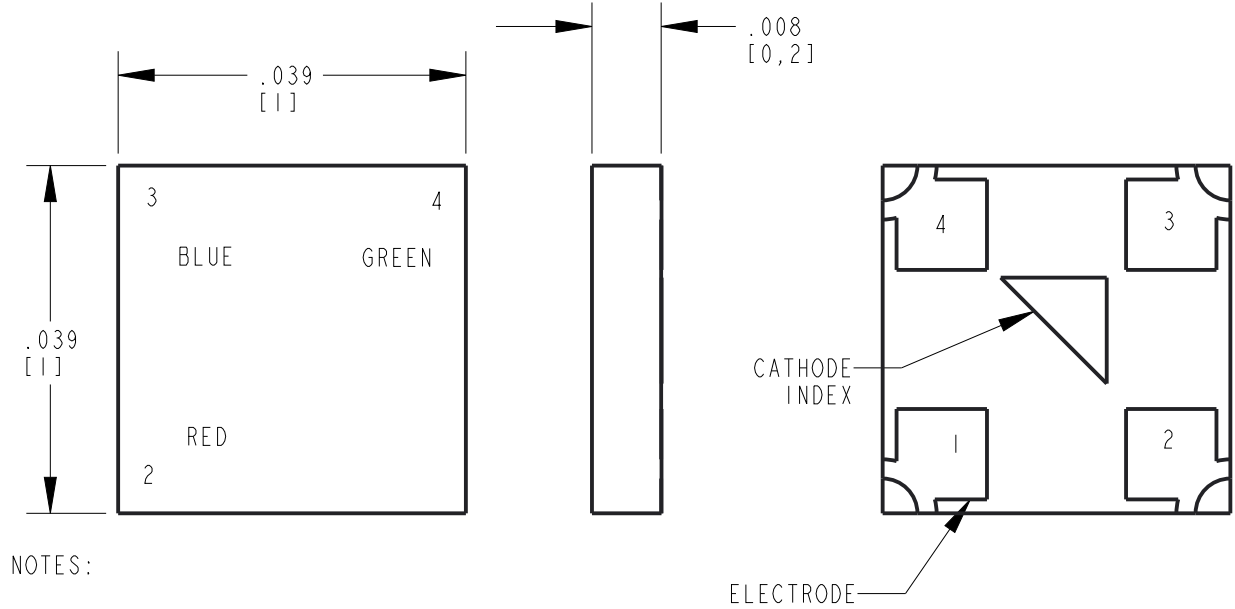


DIALIGHT PART NUMBER	COLOR	LED DIE	LED EPOXY COLOR
597-7717-502NF, 507NF	RED	AlGaInP	DIFFUSED WHITE
	GREEN	InGaN	
	BLUE		

RoHS COMPLIANT 597-7717-50XNF

Part Numbers with the "F" suffix ending are RoHS Compliant.  
For example: 597-7717-502NF  
Reel and bag packaging are marked with "RoHS Compliant"  
label or equivalent markings. These parts can be used with  
RoHS reflow profile. Parts can be wave soldered, dip soldered  
or hand soldered using typical lead-free soldering process  
with max 260°C temp. for 5 sec.

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	LD		NO	8-5-21
B		ADDED MIN,MAX LUMINOUSINT & MIN, MAX FORWARD VOLTAGE	LD		NO	4-19-22



NOTES:

1. DIALIGHT PART NUMBERS: 597-7717-50XNF.
2. TAPE & REEL MAY REQUIRE RE-TAPING AFTER 12 MONTHS.
3. PIN NUMBERS ARE FOR REFERENCE ONLY. DESIGNATION NON-EXISTENT ON PART OR REEL TAPE.
4. ...502NF SUFFIX MEANS PARTS PACKAGED ON A 20 PC SAMPLE STRIP.  
...507NF SUFFIX MEANS PARTS PACKAGED ON A 7" [Ø180mm] REEL, 5,000 PCS/REEL.
5. MOISTURE SENSITIVITY LEVEL: 3
6. PACKAGING TO INCLUDE LABEL CONTAINING DIALIGHT PART NUMBER, DATE  
CODE/LOT NO., LUMINOUS INTENSITY AND COLOR BINS, QTY/REEL, AND COUNTRY OF ORIGIN.
7. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE  
DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING  
ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
8. THE ABSOLUTE MAXIMUM RATINGS ARE FOR THE CASE OF LIGHTING SINGLE COLOR,  
WHEN LIGHTING TWO COLORS AT SAME TIME EACH OF THE FIGURE IN THE ABSOLUTE MAX RATINGS SHOULD  
BE REDUCED DOWN TO 50%  
WHEN LIGHTING THREE COLORS REDUCED DOWN TO 30%

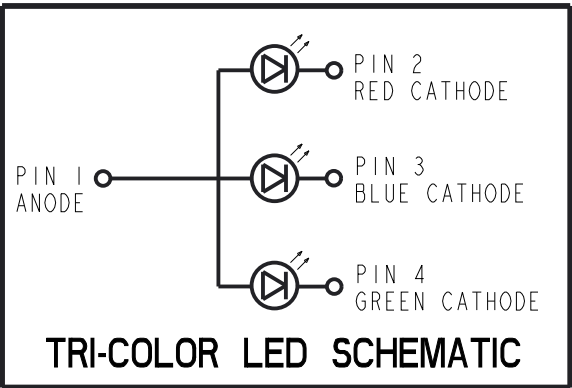
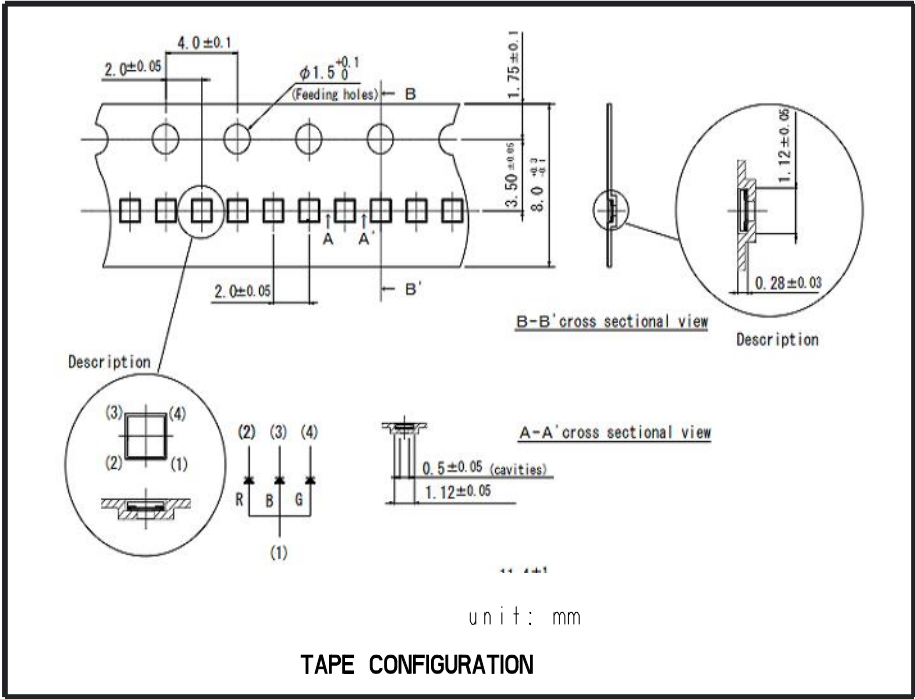
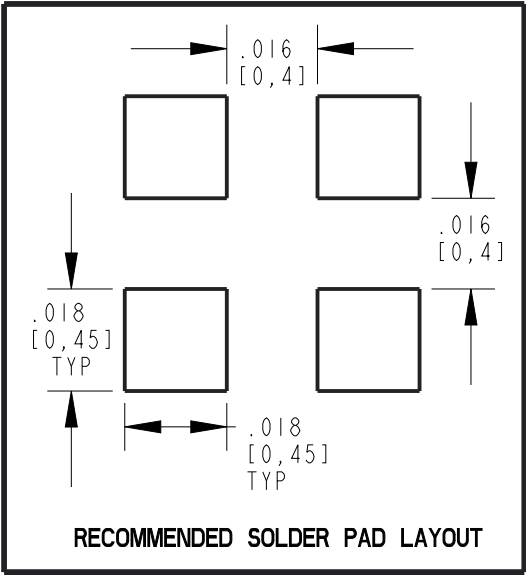
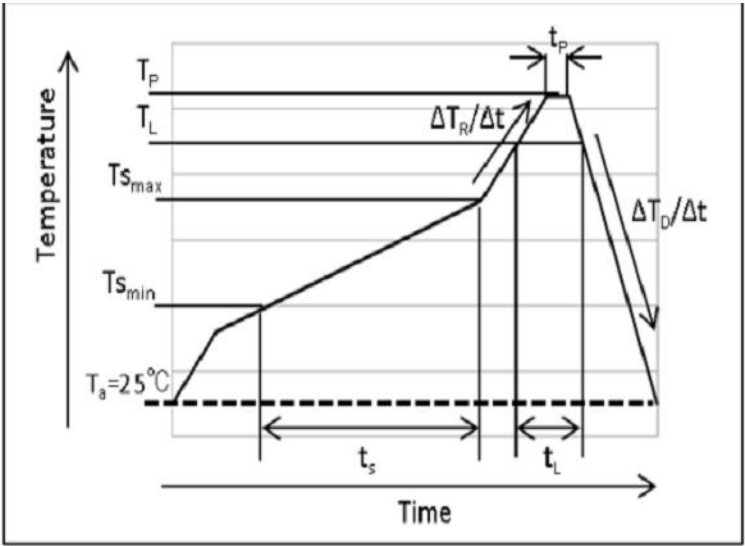
OPERATING CHARACTERISTICS AT 25°C AMBIENT																
COLOR	LUMINOUS INTENSITY				FORWARD VOLTAGE				REVERSE CURRENT		DOMINANT WAVELENGTH				VIEWING ANGLE	
	I <sub>F</sub>	MIN (mcd)	TYP (mcd)	MAX (mcd)	I <sub>F</sub>	MIN (V)	TYP (V)	MAX (V)	V <sub>R</sub>	MAX (μA)	I <sub>F</sub>	MIN (nm)	TYP (nm)	MAX (nm)	TYP (DEG)	
	RED	5 mA	36	80	140	5 mA	1.6	1.9	2.4	5V	10	5 mA	619	624	629	120
	GREEN		140	220	360		2.7	2.9	3.3				520	527	535	120
BLUE	36		60	140	2.7		3.0	3.2	465				470	475	120	

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT	COLOR			UNITS
	RED	GREEN	BLUE	
POWER DISSIPATION TOTAL LIGHTING ALL COLORS	35			mW
FORWARD CURRENT(SEE NOTE 8)	10			mA
PEAK FORWARD CURRENT (LESS THAN OR EQUAL TO 1/20 DUTY CYCLE, 1kHz)	50			mA
DERATE LINEARLY FROM 25°C	0.125			mA/°C
REVERSE VOLTAGE	5			V
STORAGE TEMPERATURE	-40 TO +100			°C
OPERATING TEMPERATURE	-40 TO +85			°C



ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

Mark	Meanings	Conditions
T <sub>Smax</sub>	Maximum of pre-heating temperature	180°C
T <sub>Smin</sub>	Minimum of pre-heating temperature	140°C
t <sub>s</sub>	Time from Tsmin to Tsmax	Over 60sec.
T <sub>L</sub>	Reference temperature	230~260°C
t <sub>L</sub>	Retention time for TL	Within 40sec.
T <sub>P</sub>	Peak temperature	260°C(Max)
t <sub>p</sub>	Time for peak temperature	Within 10sec.
ΔT <sub>R</sub> /Δt	Temperature rising rate	Under 3°C/sec.
ΔT <sub>D</sub> /Δt	Temperature decreasing rate	Over -3°C/sec.



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SCALE: 46.000	DRAWING NUMBER	REV
ALL DIM's: INCH (mm)	C-18530	B
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.004 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	0404 TRI-COLOR SMT LED	
FINISH	MATERIAL	
-	-	
FSCM 83330	<b>Dialight</b>	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com
	SHEET 1 OF 1	FAMILY TABLE: