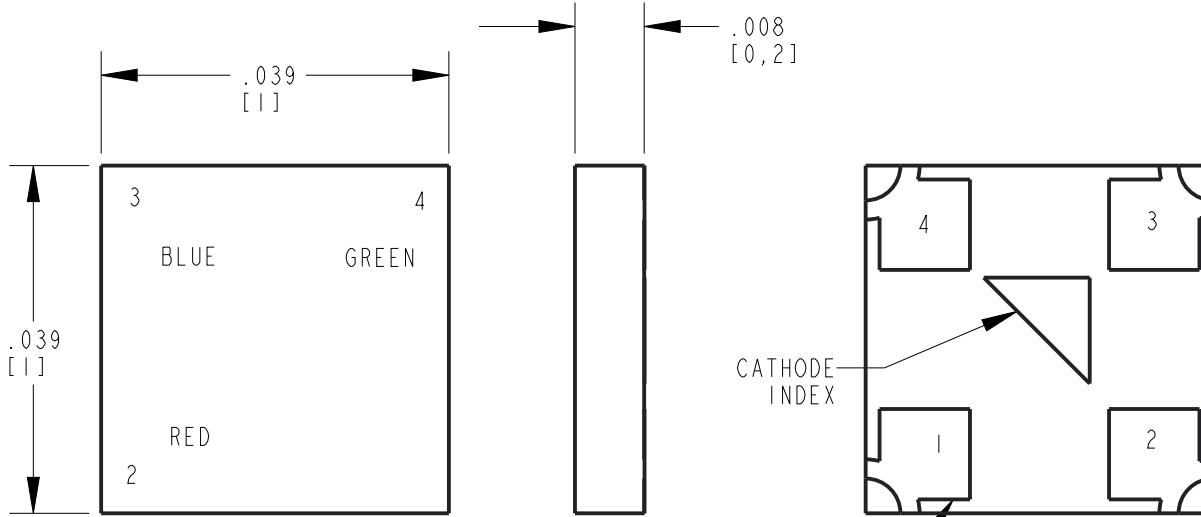


DIALIGHT PART NUMBER	COLOR	LED DIE	LED EPOXY COLOR	
597-7717-502NF, 507NF	RED	AlGaInP	DIFFUSED WHITE	
	GREEN	InGaN		
	BLUE			

### 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.



#### 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.
5. . . . 507NF SUFFIX MEANS PARTS PACKAGED ON A 7" [Ø 180mm] REEL, 5,000 PCS/REEL.
6. MOISTURE SENSITIVITY LEVEL: 3
7. PACKAGING TO INCLUDE LABEL CONTAINING DIALIGHT PART NUMBER, DATE CODE/LOT NO., LUMINOUS INTENSITY AND COLOR BINS, QTY/REEL, AND COUNTRY OF ORIGIN.
8. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
9. 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

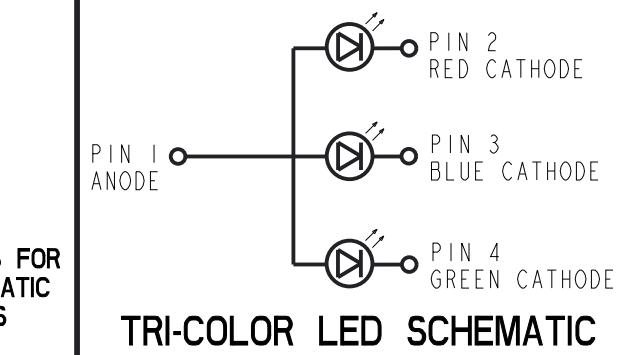
COLOR	LUMINOUS INTENSITY				FORWARD VOLTAGE				REVERSE CURRENT		DOMINANT WAVELENGTH			VIEWING ANGLE	
	I <sub>F</sub>	MIN (mcd)	TYP (mcd)	MAX (mcd)	I <sub>F</sub>	MIN (V)	TYP (V)	MAX (V)	V <sub>R</sub>	MAX (μA)	I <sub>F</sub>	MIN (nm)	TYP (nm)	MAX (nm)	TYP (DEG)
RED	5 mA	36	80	140	5 mA	1.6	1.9	2.4	5V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

#### ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT

POWER DISSIPATION TOTAL LIGHTING ALL COLORS	COLOR	RED	GREEN	BLUE	UNITS
		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

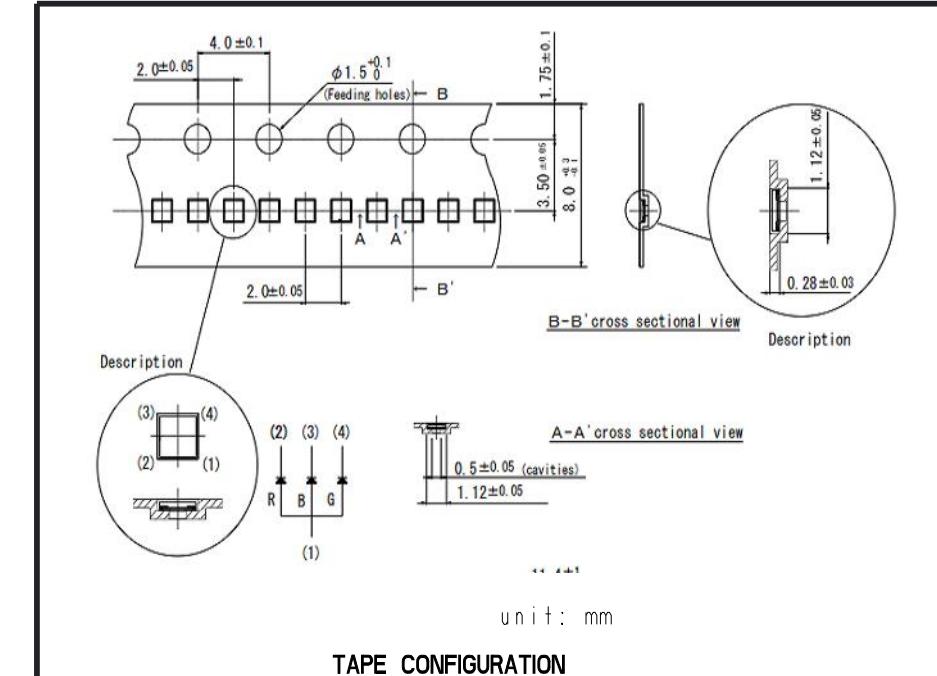
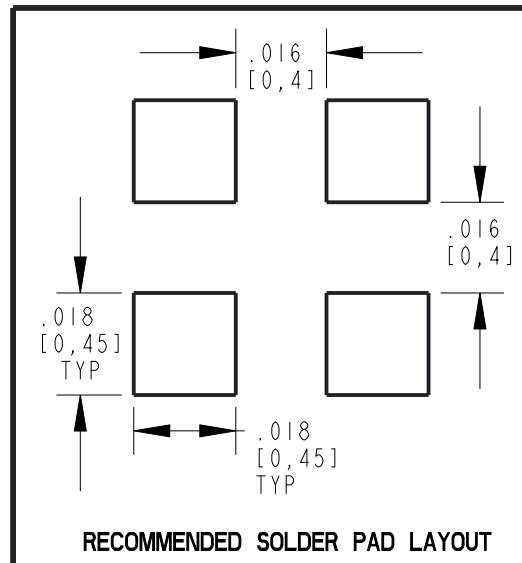
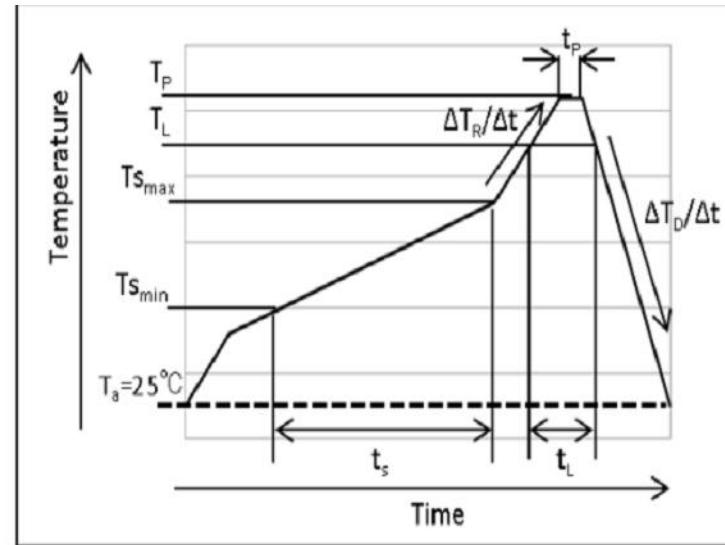


ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES



Mark	Meanings	Conditions
T <sub>s</sub> <sub>max</sub>	Maximum of pre-heating temperature	180°C
T <sub>s</sub> <sub>min</sub>	Minimum of pre-heating temperature	140°C
t <sub>s</sub>	Time from T <sub>s</sub> <sub>min</sub> to T <sub>s</sub> <sub>max</sub>	Over 60sec.
T <sub>L</sub>	Reference temperature	230~260°C
t <sub>L</sub>	Retention time for T <sub>L</sub>	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.

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	



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