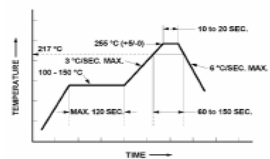


REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	TWC			



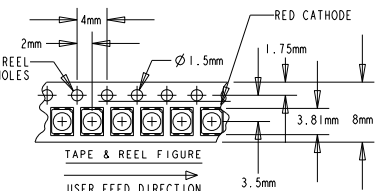
RoHS COMPLIANT (Pb FREE) REFLOW SOLDERING PROFILE

- NOTES:
1. EPOXY COLOR: WATER CLEAR.
  2. DIE: (BLUE: InGaN, GREEN: InGaN, RED: AlInGaP).
  3. LEADS: TIN PLATED, BASE METAL COPPER ALLOY.
  4. SOLDER ADHERANCE: BOTH LEADS PER MIL-STD-202E, METHOD 208C.
  5. PART TAPED AND REELED PER EIA-RS-481-1.
  6. SUFFIX -302F FOR 20 PCS ON A SAMPLE TAPE STRIP.
  7. SUFFIX -307F FOR 7" DIAMETER REEL, PACKAGED 2000 PCS PER REEL.
  8. LABELING FOR REEL AND OUTSIDE OF ALUMINUM FOIL BAG: DIALIGHT P/N, R/G/B TRI-COLOR, QUANTITY PER REEL, DATE CODE, INTENSITY BIN CODE, LOT NUMBER AND COUNTRY OF ORIGIN.
  9. DIALIGHT P/N: 597-7711-302F, 597-7711-307F.
  10. DEVICES HAVE A MOISTURE SENSITIVITY LEVEL OF 2a. SHELF LIFE IN SEALED BAG: 24 MONTHS @ <40 °C AND <90% RELATIVE HUMIDITY.

OPERATING CHARACTERISTICS AT 25 °C AMBIENT

LED CHARACTERISTICS	COLOR	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	BLUE GREEN RED	25 99 40	40 160 80	60 180	mc d	I <sub>F</sub> = 20 mA
FORWARD VOLTAGE	BLUE GREEN RED		3.4 3.4 1.9	4.05 4.05 2.4	V	I <sub>F</sub> = 20 mA
REVERSE CURRENT	BLUE GREEN RED		100 100 100		µA	V <sub>R</sub> = 5V
PEAK WAVELENGTH	BLUE GREEN RED		468 523 635		nm	I <sub>F</sub> = 20 mA
DOMINANT WAVELENGTH	BLUE GREEN RED		470 525 626		nm	I <sub>F</sub> = 20 mA
2 X 1/2 - INTENSITY ANGLE	BLUE GREEN RED	120 120 120			DEGREES	

RECOMMENDED SOLDER PAD LAYOUT



**RoHS Compliant 597-7711-30XF Surface Mount LED**  
 Part Numbers with the "F" suffix ending are RoHS Compliant.  
 Example: 597-7711-307F  
 Packaging is marked with "RoHS Compliant" label or equivalent markings.  
 Parts can be reflow soldered per RoHS reflow profile, wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 10-20 sec.

ABSOLUTE MAXIMUM RATINGS AT 25 °C AMBIENT	RED	GREEN	BLUE	UNIT
POWER DISSIPATION (TOTAL)	72	120	120	mW
CONTINUOUS FORWARD CURRENT (SINGLE CHIP)	30	20	20	mA
DERATE LINEARLY FROM 80°C (*BLUE & GREEN FROM 70°C) BASED ON 1 CHIP ON	1.00	*0.67	*0.40	mA/°C
DERATE LINEARLY FROM 65°C (*BLUE & GREEN FROM 50°C) BASED ON 3 CHIPS ON	0.75	*0.30	*0.30	mA/°C
SURGE CURRENT	0.5	0.5	0.2	A
REVERSE VOLTAGE	5	5	5	V
OPERATING TEMPERATURE RANGE	-55 TO +100			°C
STORAGE TEMPERATURE RANGE	-55 TO +100			°C
JUNCTION TEMPERATURE	+110			°C



**ATTENTION:**  
 OBSERVE PRECAUTIONS FOR  
 HANDLING ELECTROSTATIC  
 SENSITIVE DEVICES

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SCALE: DRAWING SCALE ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17396	REV A
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/4 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	TITLE R/G/B TRI-COLOR SMT LED RoHS COMPLIANT	MATERIAL
FINISH:	<b>Dialight</b>	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
FSCN 83330	SHEET 1 OF 1 FAMILY TABLE:	