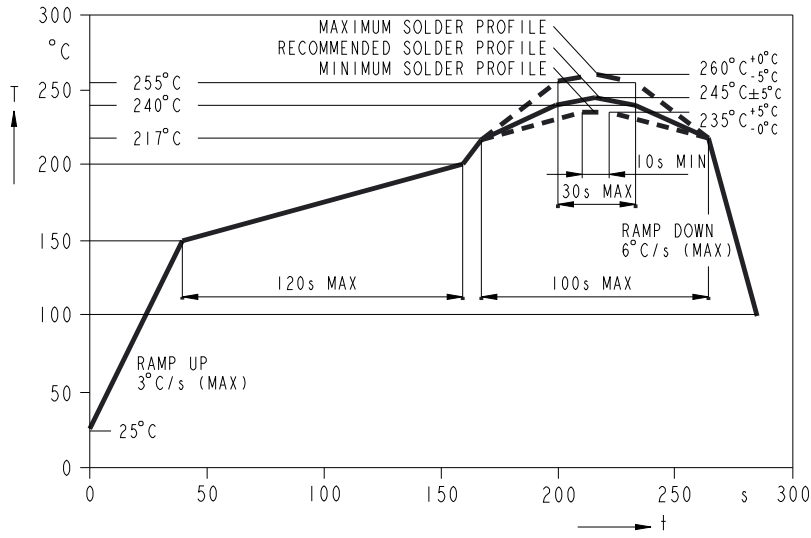
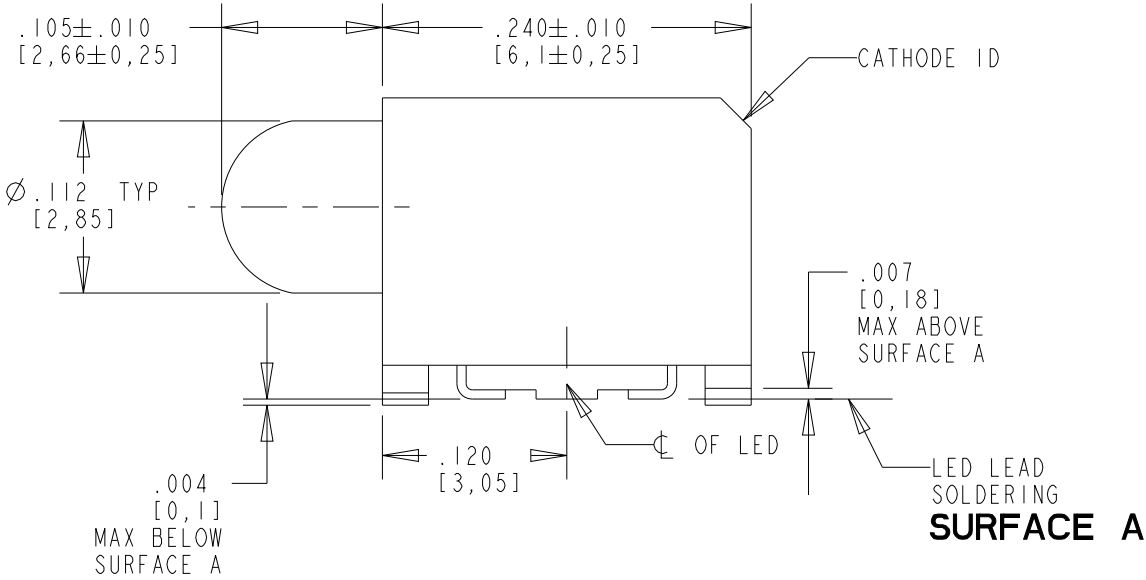
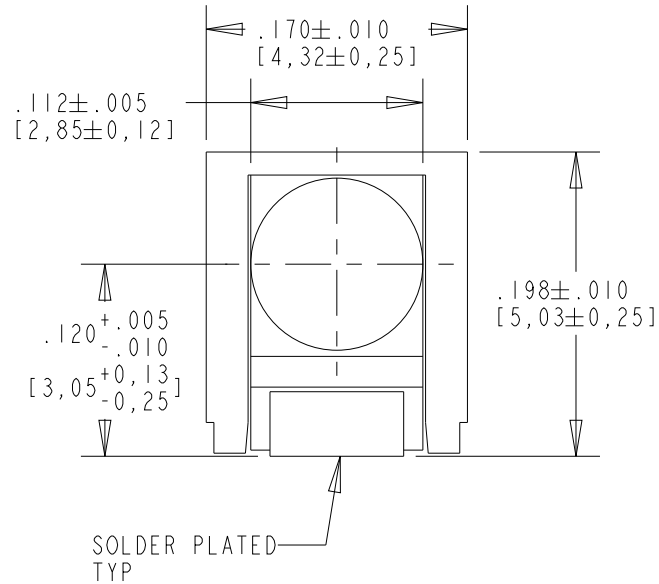


DIALIGHT PART NUMBER	LED COLOR
591-2001-007NF	InGaAlP RED
591-2001-013NF	
591-2101-007NF	SUPER BRIGHT GaAlAs RED
591-2101-013NF	
591-2301-007NF	InGaAlP GREEN
591-2301-013NF	
591-2401-007NF	InGaAlP YELLOW
591-2401-013NF	
591-2501-007NF	InGaAlP ORANGE
591-2501-013NF	
591-2601-007NF	InGaN BLUE
591-2601-013NF	
591-2801-007NF	WHITE
591-2801-013NF	

RoHS Compliant 591-2X01-0XXNF

Part Numbers with the "F" suffix ending are RoHS Compliant.
For Example: 591-2701-007NF
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 5 sec.



RoHS COMPLIANT REFLOW PROFILE

OPERATING CHARACTERISTICS AT 25°C AMBIENT

LED COLOR	OPERATING CHARACTERISTICS AT 25°C AMBIENT												
	LUMINOUS INTENSITY TEST CONDITION	LUMINOUS INTENSITY (mcd)			FORWARD VOLTAGE TEST CONDITION	FORWARD VOLTAGE (V)			REVERSE CURRENT (μA)	DOMINANT WAVELENGTH (nm)			VIEWING ANGLE (DEG)
		MIN	TYP	MAX		MIN	TYP	MAX		MAX	MIN	TYP	
InGaAlP RED	IF = 10mA		14		IF = 20mA	1.8	2.0	2.3	10	627	633	639	40
GaAlAs RED	IF = 10mA		34		IF = 20mA		1.85	2.5	10		640		40
InGaAlP GREEN	IF = 10mA		15		IF = 20mA	1.8	2.0	2.4	10	566	570	575	40
InGaAlP YELLOW	IF = 10mA		71		IF = 20mA	1.9	2.0	2.4	10	580	587	595	40
InGaAlP ORANGE	IF = 10mA		83		IF = 20mA	1.8	2.0	2.4	10	600	606	609	40
BLUE	IF = 10mA		150		IF = 20mA	2.8		3.5	10	465	470	475	40
WHITE	IF = 10mA		125		IF = 3mA	2.5	2.7	3.1	10	*X= .281, Y= .247			40

*CHROMACITY COORDINATES

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT

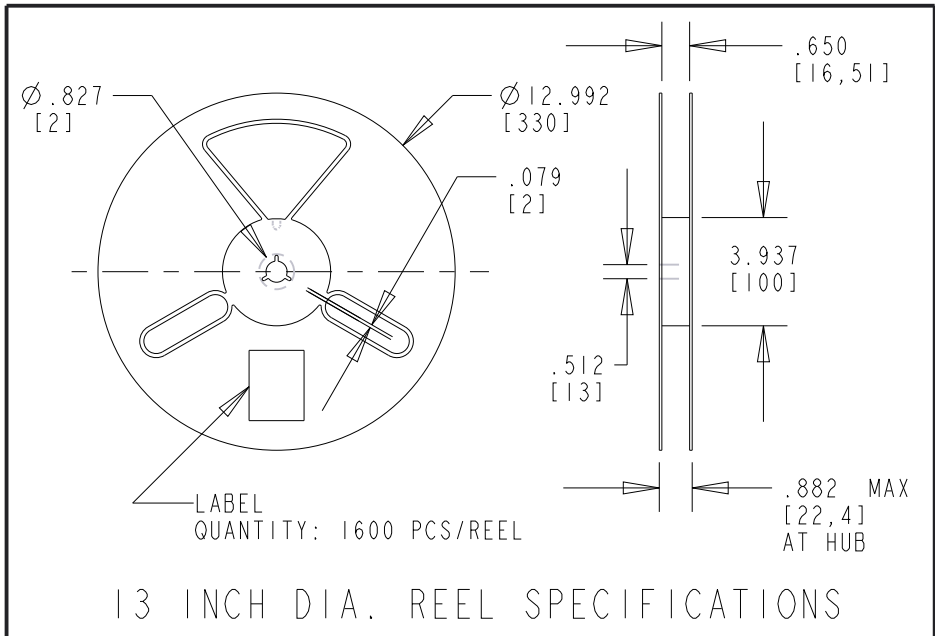
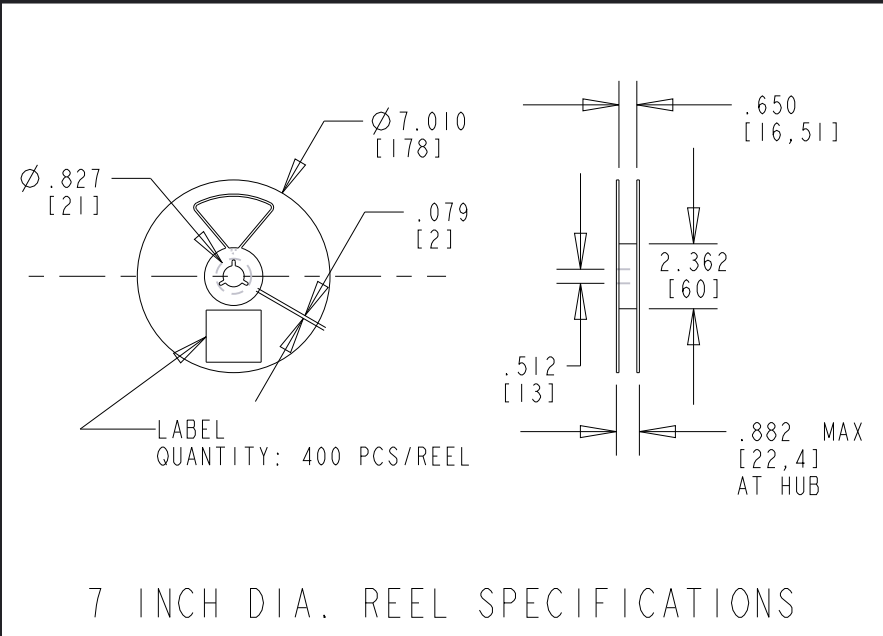
LED COLOR	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA) (t≤10μs, D=.005)	LINEAR DERATION	REVERSE VOLTAGE (V)	OPERATING TEMPERATURE	STORAGE TEMPERATURE	ESD WITHSTAND VOLTAGE (V)
InGaAlP RED	30	1000	1.00 mA/°C FROM 85°C	12	-40°C /+100°C	-40°C /+100°C	2000
GaAlAs RED	30	155	0.42 mA/°C FROM 25°C	12	-40°C /+85°C	-40°C /+85°C	3000
InGaAlP GREEN	30	1000	1.00 mA/°C FROM 85°C	12	-40°C /+100°C	-40°C /+100°C	2000
InGaAlP YELLOW	30	200	1.00 mA/°C FROM 85°C	12	-40°C /+100°C	-40°C /+100°C	2000
InGaAlP ORANGE	30	1000	1.00 mA/°C FROM 85°C	12	-40°C /+100°C	-40°C /+100°C	2000
InGaN BLUE	30	100	.56 mA/°C FROM 45°C	5	-40°C /+85°C	-40°C /+100°C	1000
WHITE	30	91	.67 mA/°C FROM 85°C	5	-40°C /+100°C	-40°C /+100°C	2000

NOTES :

- PAD NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- STORAGE CONDITIONS FOR TAPED PRODUCT: RE-TAPING MAY BE NECESSARY FOR PRODUCTS STORED MORE THAN TWELVE MONTHS.
- ORDER QUANTITY IS LED ASSEMBLIES, NOT REELS.
- ...-002NF SUFFIX MEANS PARTS ARE PACKED ON A 20 pc SAMPLE STRIP
...-007NF SUFFIX MEANS PARTS ARE PACKED ON A 7 INCH REEL , 400 pcs/REEL
...-013NF SUFFIX MEANS PARTS ARE PACKED ON A 13 INCH REEL , 1600 pcs/REEL
- LENS MOVEMENT IN RELATIONSHIP TO THE HOUSING IS .009" T.I.R. VERTICALLY AND .007" T.I.R. HORIZONTALLY.
- FRONT AND REAR TERMINALS OF THE ASSEMBLY TO BE WITHIN .005 COPLANARITY.
- DIALIGHT PART NUMBERS = 591-2X01-002NF, 591-2X01-007NF, 591-2X01-013NF
- MOISTURE SENSITIVITY LEVEL: "3" FOR P/N 591-2101-0XXNF
"2" FOR ALL OTHER P/N'S
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES



THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT CORP.		
SCALE: 8.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18499	B
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE SURFACE MOUNT CBI - ROUND LENS RoHS COMPLIANT	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.02 DECIMALS (.XXX): ±.015	MATERIAL	
ANGLES: ±3°	FINISH	
FSCM 83330	SHEET 1 OF 1 FAMILY TABLE:	