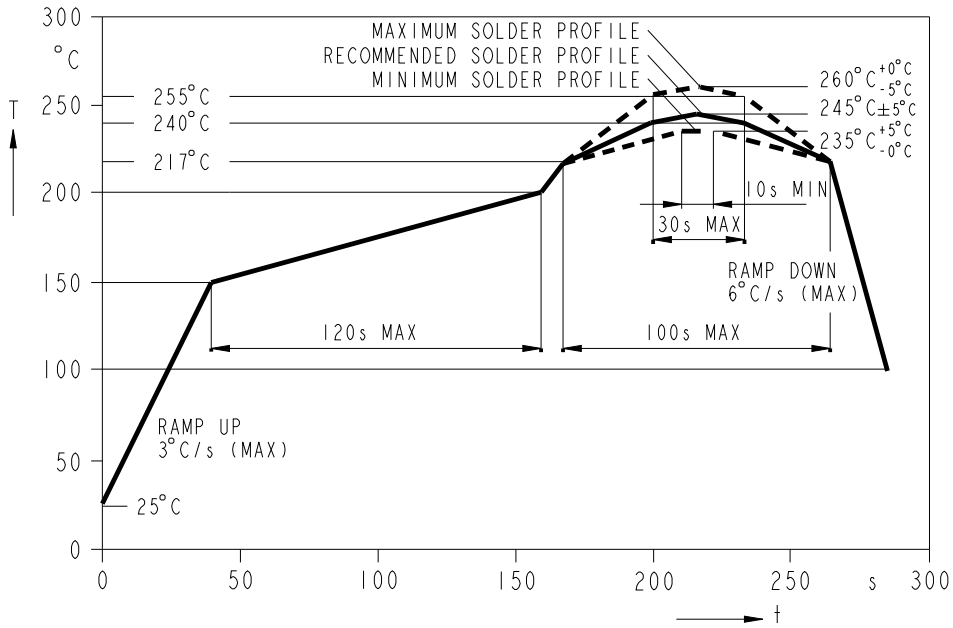


PART NUMBER	LED COLOR	MSL
591-2001-102NF	InGaAlP RED	2
591-2001-107NF		
591-2001-113NF	GaAlAs RED	3
591-2101-102NF		
591-2101-107NF	InGaAlP GREEN	2
591-2101-113NF		
591-2301-102NF	InGaAlP YELLOW	2
591-2301-107NF		
591-2401-102NF	InGaAlP ORANGE	2
591-2401-113NF		
591-2501-102NF	InGaAlP ORANGE	2
591-2501-113NF		

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		MIN	TYP	MAX	
InGaAlP RED	IF = 10mA		13		IF = 20mA	1.8	2.0	2.3	10	627	633	639	40
GaAlAs RED	IF = 10mA		33		IF = 20mA		1.85	2.5	10		640		40
InGaAlP GREEN	IF = 10mA		19		IF = 20mA	1.8	2.0	2.4	10	566	570	575	40
InGaAlP YELLOW	IF = 10mA		57		IF = 20mA	1.9	2.0	2.4	10	580	587	595	40
InGaAlP ORANGE	IF = 10mA		61		IF = 20mA	1.8	2.0	2.4	10	600	606	609	40

LED COLOR	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA) (t≤10μs, D=0.005)	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



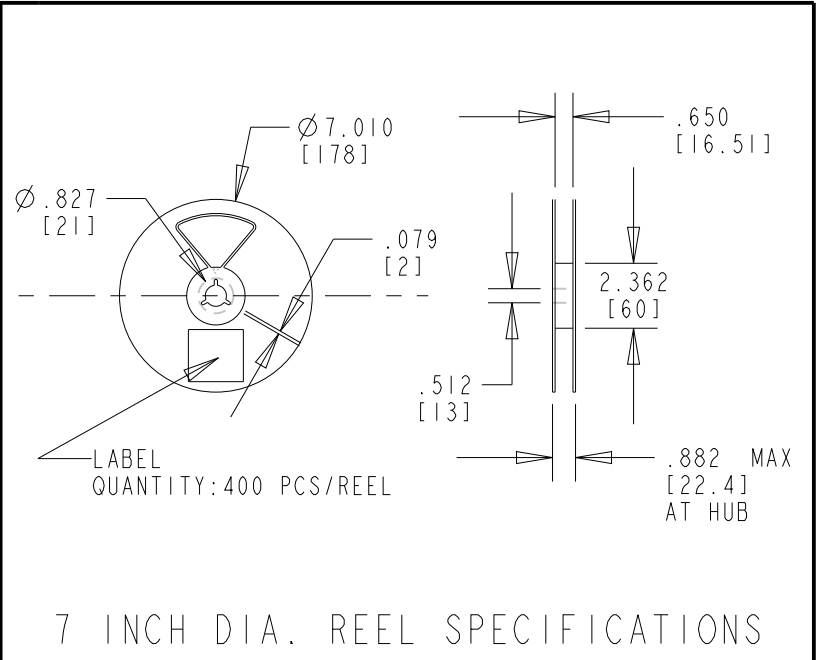
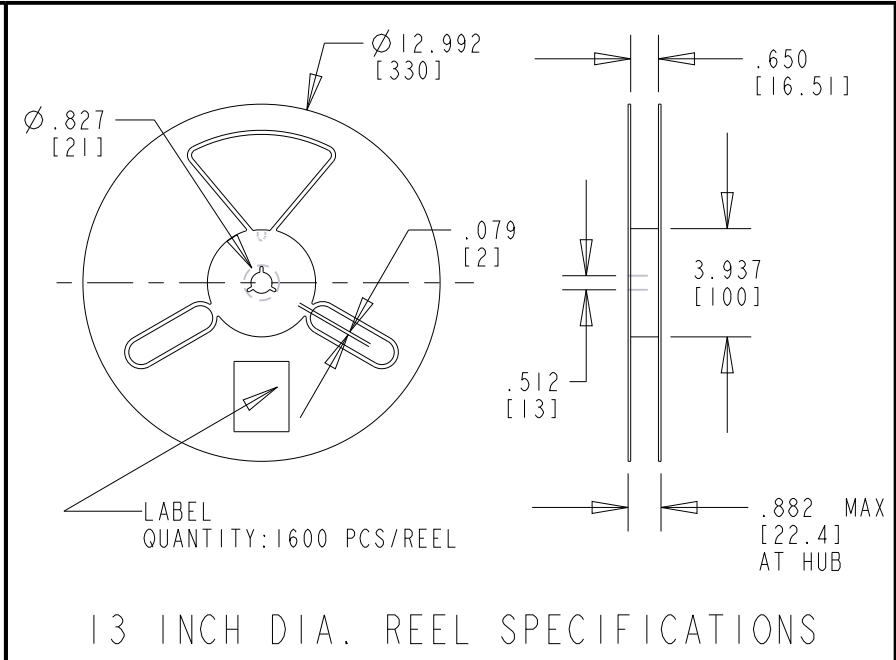
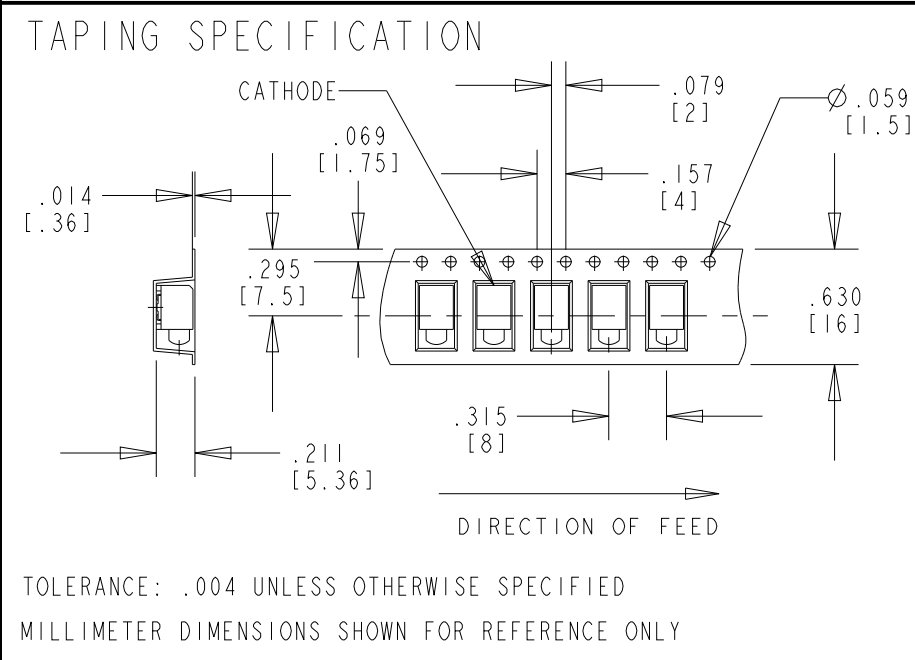
RECOMMENDED RoHS COMPLIANT REFLOW PROFILE

NOTES :

- MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.
- 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.
- ...-102NF SUFFIX MEANS PARTS ARE PACKED ON A 20 pc SAMPLE STRIP
...-107NF SUFFIX MEANS PARTS ARE PACKED ON A 7 INCH REEL , 400 pcs/REEL
...-113NF 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
.007" T.I.R. HORIZONTALLY
- FRONT AND REAR TERMINALS OF THE ASSEMBLY TO BE WITHIN .005 COPLANARITY.
- DIALIGHT PART NUMBERS = 591-2x01-102NF 591-2x01-107NF 591-2x01-113NF
- DRY PACK PACKAGING CONSIST OF A DESICCANT AND HUMIDITY INDICATOR CARD IN A VACUUM SEALED MOISTURE BARRIER BAG, MOISTURE SENSITIVITY LABEL
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

RoHS Compliant 591-2X01-1XXNF

Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 591-2001-102F
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.



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

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SCALE: DRAWING SCALE	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18498	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE SURFACE MOUNT CBI - SQUARE LENS RoHS COMPLIANT	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.02 DECIMALS (.XXX): ±.010	MATERIAL	
ANGLES: ±3° FINISH	FSCM 83330	
1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com		
SHEET 1 OF 2 FAMILY TABLES:		

REV	ECN NO	REVISIONS	DRN	CKD	APP	QA	CM	DATE
A	---	NEW RELEASE	X					

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DIALIGHT CORP. INTERNAL REFERENCE ONLY = 3D MODEL : MODEL NAME-A-6		
SCALE: DRAWING SCALE	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)		
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	MATERIAL	
FINISH	 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
FSCM 83330	SHEET 2 OF 2	FAMILY TABLE:

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Dialight:

[591-2001-107NF](#) [591-2001-113NF](#) [591-2101-107NF](#) [591-2101-113NF](#) [591-2301-107NF](#) [591-2301-113NF](#) [591-2401-107NF](#) [591-2401-113NF](#) [591-2501-113NF](#) [591-2001-102NF](#) [591-2101-102NF](#) [591-2301-102NF](#) [591-2401-102NF](#) [591-2501-102NF](#)