

PART NUMBER	LED COLOR
595-2101-002F	RED
595-2101-007F	
595-2101-013F	
595-2701-002F	AlInGaP YELLOW
595-2701-007F	
595-2701-013F	

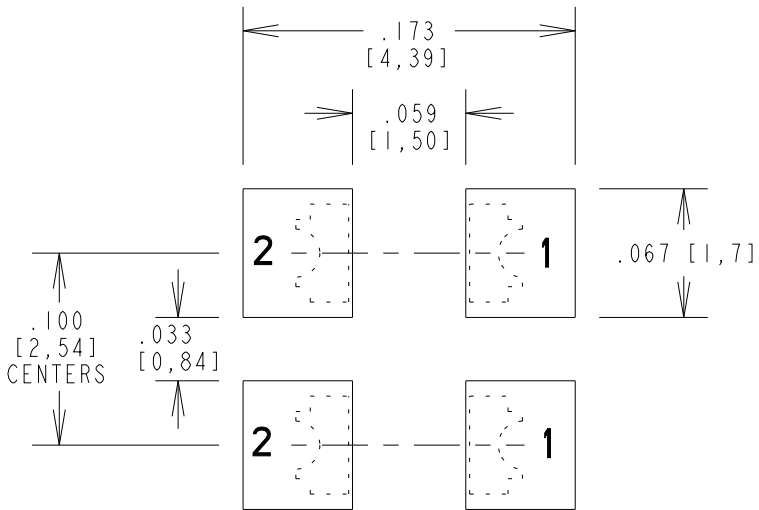
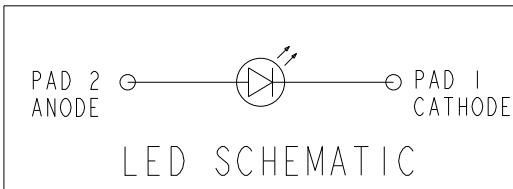
OPERATING CHARACTERISTICS AT 25°C AMBIENT						
CHARACTERISTICS		MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED		25.0		mc d	I _F = 20 mA
FORWARD VOLTAGE	RED		1.7	2.0	V	I _F = 20 mA
REVERSE VOLTAGE	RED	4			V	I _R = 100 μA
PEAK WAVELENGTH	RED		660		nm	
DOMINANT WAVELENGTH	RED		647		nm	

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT	COLOR	VALUE	UNITS
POWER DISSIPATION	RED	60	mW
DERATE LINEARLY FROM 25°C	RED	0.42	mA/°C
CONTINUOUS FORWARD CURRENT	RED	30	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	RED	70	mA
OPERATING TEMPERATURE	RED	-30 TO +85	°C
STORAGE TEMPERATURE	RED	-30 TO 80	°C

OPERATING CHARACTERISTICS AT 25°C AMBIENT						
CHARACTERISTICS		MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	AlInGaP YELLOW		41.0		mc d	I _F = 10 mA
FORWARD VOLTAGE	AlInGaP YELLOW		2.02	2.4	V	I _F = 20 mA
REVERSE CURRENT	AlInGaP YELLOW			100	μA	V _R = 5V
PEAK WAVELENGTH	AlInGaP YELLOW		592		nm	
DOMINANT WAVELENGTH	AlInGaP YELLOW	582	590	597	nm	

ABSOLUTE MAXIMUM RATING AT 25°C AMBIENT			UNITS
POWER DISSIPATION	AlInGaP YELLOW	81	mW
DERATE LINEARLY FROM 75°C (* FROM 55°C)	AlInGaP YELLOW	0.58 *	mA/°C
CONTINUOUS FORWARD CURRENT	AlInGaP YELLOW	30	mA
OPERATING TEMPERATURE	AlInGaP YELLOW	-30 TO +85	°C
STORAGE TEMPERATURE	AlInGaP YELLOW	-40 TO +100	°C

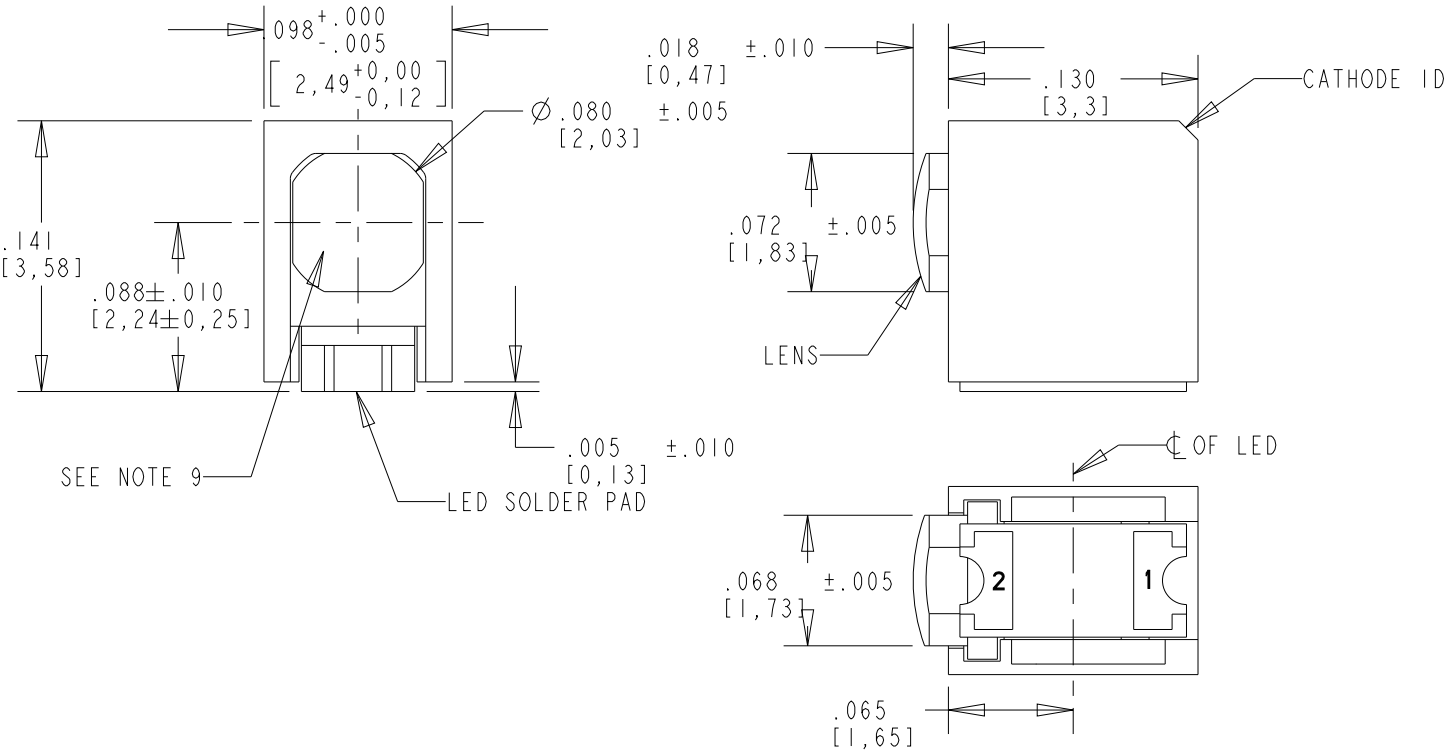
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	TWC	N.O.	MES	1-12-06
B	—	MSL "3" WAS "4" IN NOTE 7, ADDED P/N'S 595-2201-002F, 595-2701-002F TO MSL "2a" IN NOTE 7, ADDED P/N'S 595-2101-002F, 595-2301-002F, 595-2401-002F, AND 595-2501-002F TO MSL "3" IN NOTE 7, REMOVED REFLOW SOLDERING SPECS FROM ABSOLUTE MAXIMUM RATINGS.	KLJ	N.O.	MES	4-15-08
C	—	REVISED HI. INT. GREEN SPECS	AJF	KLJ	NO	3-16-10
D	—	REMOVED OBSOLETE P/Ns 595-2301-002F, 595-2401-013F, 595-2301-007F, 595-2301-013F, 595-2401-002F, 595-2401-007F, WITH THERE LED SPECS AND NOTES	VP	JTD	NO	1-7-16
E	—	REMOVED OBSOLETE P/Ns 595-2201-002F, 595-2201-013F, 595-2201-007F, 595-2501-013F, 595-2501-002F, 595-2501-007F, WITH THERE LED SPECS AND NOTES	VP	JTD	NO	3-9-16



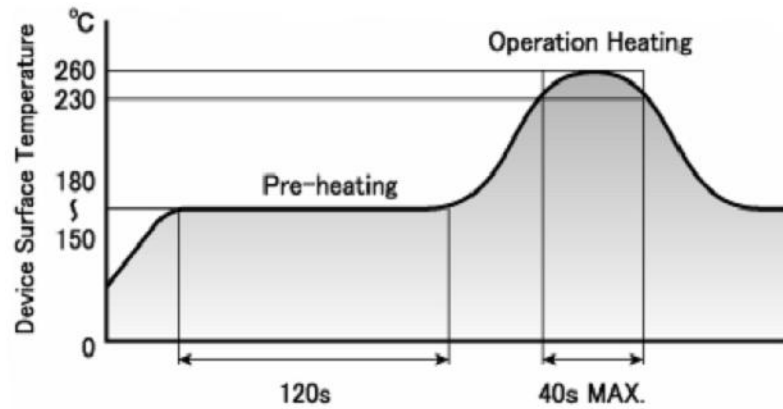
COMPONENT SIDE
RECOMMENDED PC BOARD LAND PATTERN
(DIM'S ±.004)

NOTES:

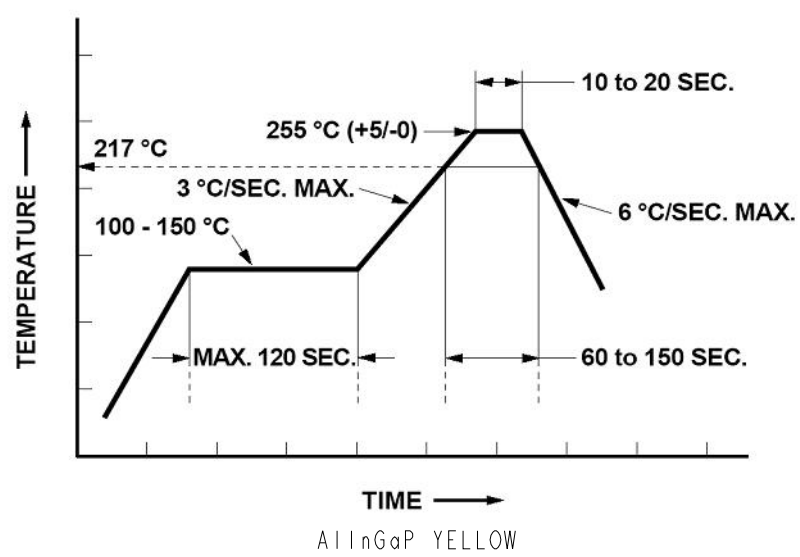
- 1- MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.
- 2- PAD NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- 3- STORAGE CONDITIONS FOR TAPED PRODUCT: RE-TAPING MAY BE NECESSARY FOR PRODUCTS STORED MORE THAN TWELVE MONTHS.
- 4- ORDER QUANTITY IS LED ASSEMBLIES, NOT REELS
- 5- ...-002 SUFFIX MEANS PARTS ARE PACKED ON A 20 pc SAMPLE STRIP
...-007 SUFFIX MEANS PARTS ARE PACKED ON A 7 INCH REEL, 600 pcs/REEL
...-013 SUFFIX MEANS PARTS ARE PACKED ON A 13 INCH REEL, 2300 pcs/REEL
- 6- DIALIGHT PART NUMBERS = 595-2x01-002F, 595-2x01-007F, 595-2x01-013F
- 7- PLACE MOISTURE SENSITIVITY LEVEL "3" LABEL ON 595-2701-002F, 595-2701-007F, 595-2701-013F. 595-2101-002F, 595-2101-007F, 595-2101-013F VACUUM SEAL BAG.
- 8- PACKAGE ONE HUMIDITY INDICATOR CARD (P/N 9100-999-0662-99) PER BAG.
- 9- PER LENS INSPECTION PROCEDURE 01-225 THIS AREA CAN HAVE PORTIONS MISSING OF UP TO 50%. NON-CRITICAL AREA BELOW LENS.



RoHS COMPLIANT REFLOW PROFILES



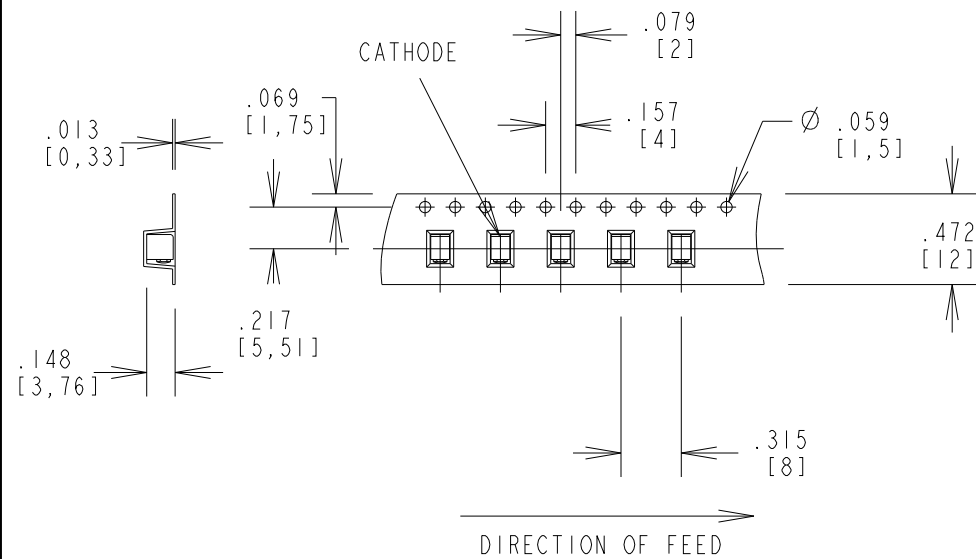
RED / GREEN / YELLOW/ ORANGE/ HI. INT. GREEN



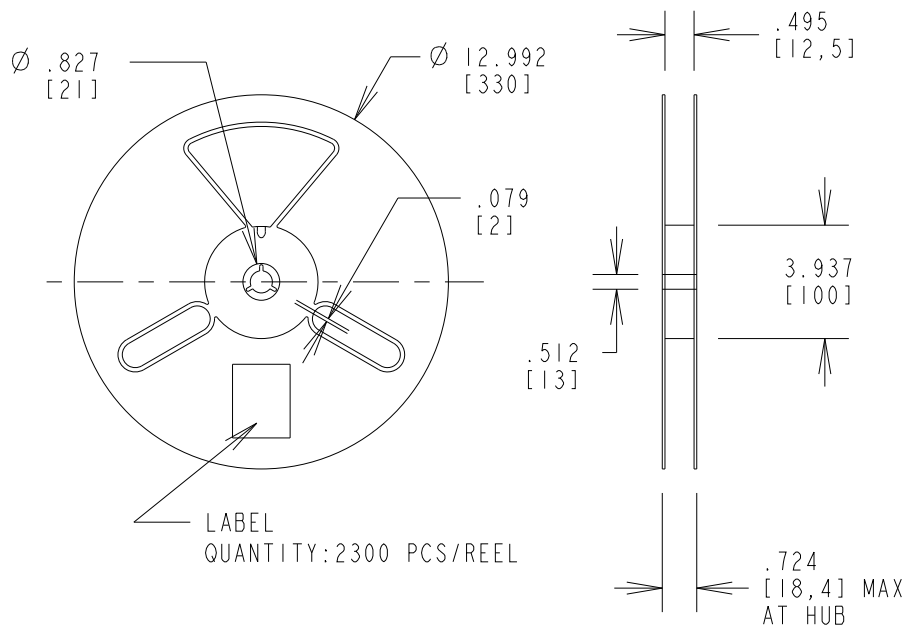
RoHS Compliant 595-2X01-0XXF Surface Mount CBI

Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 595-2101-002F
Packaging is marked with "RoHS Compliant" label or equivalent markings. Parts can be wave soldered, dip soldered, or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

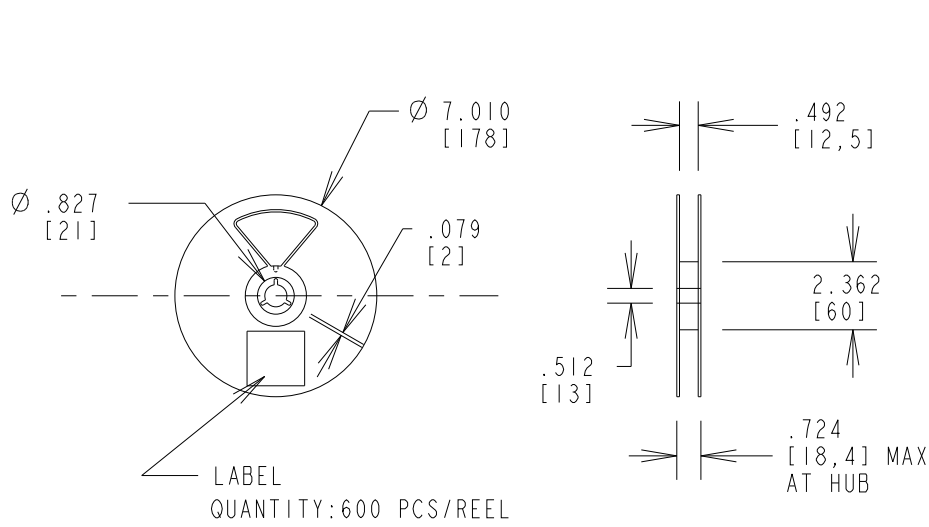
TAPING SPECIFICATION



TOLERANCE: .004 UNLESS OTHERWISE SPECIFIED
MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY



13 INCH DIA. REEL SPECIFICATIONS



7 INCH DIA. REEL SPECIFICATIONS

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SCALE: DRAWING SCALE ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17345	REV E
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	TITLE SURFACE MOUNT CBI RoHS COMPLIANT	MATERIAL
FINISH:	Dialight	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE:

Mouser Electronics

Authorized Distributor

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

Dialight:

[595-2401-007](#) [595-2301-007](#) [595-2301-007F](#) [595-2401-007F](#) [595-2101-007F](#) [595-2101-007](#) [595-2301-013](#) [595-2401-002F](#) [595-2301-013F](#) [595-2201-002F](#) [595-2501-002F](#) [595-2301-002F](#) [595-2701-002F](#) [595-2201-007F](#) [595-2701-007F](#) [595-2101-002F](#) [595-2101-013F](#) [595-2401-013F](#) [595-2401-00-2HF](#) [595-2902-013F](#) [595-2602-013F](#) [595-2902-007F](#) [595-2602-007F](#) [595-2602-00-2HF](#) [595-2602-00-7HF](#) [595-2602-01-3HF](#) [595-2902-01-3HF](#) [595-2902-00-7HF](#) [595-2902-00-2HF](#) [595-2301-802F](#) [595-2701-013F](#) [595-2201-013F](#) [595-2501-007F](#) [595-2101-00-2SF](#) [595-2101-00-7SF](#) [595-2101-01-3SF](#) [595-2301-00-2SF](#) [595-2301-00-7SF](#) [595-2301-01-3SF](#) [595-2401-00-2SF](#) [595-2401-00-7SF](#) [595-2401-01-3SF](#) [595-2201-00-2HF](#) [595-2201-01-3HF](#) [595-2301-00-2HF](#) [595-2701-00-7HF](#) [595-2701-01-3HF](#) [595-2301-806F](#) [595-2301-00-7HF](#) [595-2201-00-7HF](#) [595-2201-013H-FBRF](#) [595-2701-00-2HF](#) [595-2401-00-7HF](#) [595-2101-00-7HF](#) [595-2101-01-3HF](#) [595-2401-01-3HF](#) [595-2701-013H-FBRF](#) [595-2101-00-2HF](#) [595-2301-01-3HF](#) [5952-301-007S-NF](#) [595-2301-01-3NF](#) [5952-401-002S-NF](#) [5952-301-002H-NF](#) [595-2401-00-2NF](#) [595-2301-00-2NF](#) [5952-401-013H-NF](#) [5952-301-002S-NF](#) [595-2301-00-7NF](#) [5952-401-013S-NF](#) [595-2401-01-3NF](#) [5952-401-007S-NF](#) [595-2401-00-7NF](#) [5952-401-002H-NF](#) [5952-301-013H-NF](#) [595-2902-01-3SF](#) [595-2602-01-3SF](#) [595-2902-00-2SF](#) [5952-301-013S-NF](#) [5952-301-007H-NF](#) [5952-401-007H-NF](#) [595-2902-00-7SF](#) [595-2602-00-7SF](#) [595-2602-00-2SF](#)