

PART NUMBER	CCL-CRS10R/Y	REV.	- 1
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
04.27.93	REDRAWN.		Α
01.14.94	ADDED POLARITY NOTATION.		В
10.02.98	E.C.N. #10390 & #10BRDR & REDRAWN.		С
12.11.98	E.C.N. #10484 ADDED SOLDER PROFILE		D
01.12.01	E.C.N. #10695. & REDRAWN IN 3D.		E
03.14.03	E.C.N. #10967.		F
09.15.05	E.C.N. #11271.		G
01.19.07	E.C.N. #11148.		Н
06.17.11	E.C.N. #10BRDR. & REDRAWN/#11730.		- 1

ELECTRO-OPTICAL CHARACTERISTICS TA =25°C If=20mA						
PARAMETER	MIN	TYP.	MAX	UNITS	TEST COND	
PEAK WAVELENGTH (R/Y)		635/565		nm		
FORWARD VOLTAGE (R/Y)		2.0/2.1	2.5	Vf		
REVERSE VOLTAGE	4.0			Vr	Ir=100μA	
AXIAL INTENSITY (R/Y)		12/8		mcd	If=20mA	
VIEWING ANGLE		180		2x theta		
EMITTED COLOR:	RED/YE	LOW				
EPOXY LENS FINISH:	WATER	CLEAR				

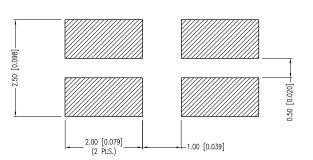
LIMITS OF SAFE OPERATION AT 25°	C	
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	65	mW
DERATE FROM 25°C	33	mW/°C
OPERATING TEMP.	-30 TO +75	•C
STORAGE TEMP.	-40 TO +85	•c

*	1/1	۰۰

SOLDER HEAT PROOF TEST:	DIPPING FOR 5 SEC. AT 250°C, 2 TIMES.
THERMAL SHOCK TEST:	15 MIN. AT +90°C, AND 15 MIN. AT -30°C, 25 CYCLES.
VIBRATION TEST:	50Hz, FULL AMPLITUDE WIDTH; 1.5mm, 2 HOURS VERTICALLY AND HORIZONTALLY, RESPECTIVELY.
MOISTURE TEST:	Ta=60°C, Rh=90%, 1,000 HOURS.
IRON SOLDERING:	20W IRON (SHARP TIP), 280-320°C, 5 SEC. MAX.,
SOLDER DIP METHOD:	TEMP. IS 240-260°C AND TIME IS WITHIN 10 SEC.
RE-FLOW SOLDERING:	SEE CHART.

I F CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 2A STANDARDS

## RECOMMENDED SOLDER PAD LAYOUT



Creating LED and LCD Solutions Together\*

[0.035] PLS.) 0.90

2.17 [0.085]-0.40 [0.016] (4 PLS.)

> 290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538

WEB: WWW.LUMEX.COM

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=  $^{+0}$  PRECISION MAX.=  $^{+0.00}$  MAX.=  $^{+0.00}$  MAX.=  $^{+0.00}$  PRECISION MAX.=  $^{+0.00}$  PRECISION MAX.=  $^{+0.00}$  MAX. 3.0mm x 2.5mm CERAMIC SURFACE MOUNT LED, 635/585nm RED/YELLOW LED, WATER CLEAR LENS.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

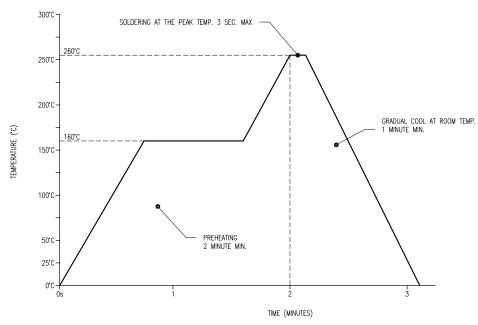
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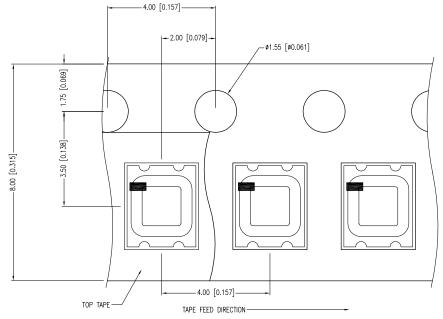
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	UNIT: mn	Pb)			

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REV.

## LEAD FREE REFLOW PROFILE





## NOTES:

- 1. PART SUPPLIED ON SUPER 8 TAPE AND REEL, 3,000 PIECES PER REEL.
- 2. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
- 3. WHITE CERAMIC CARRIER.

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