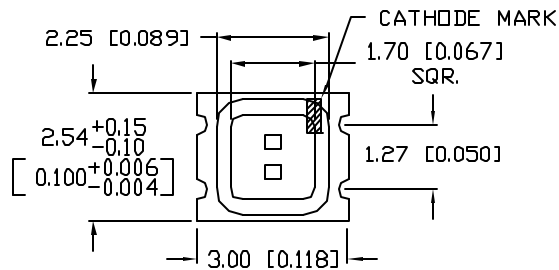
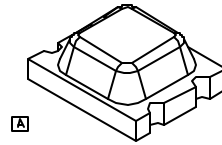
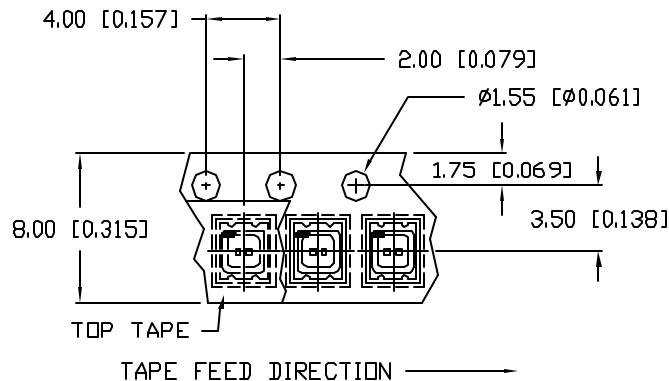
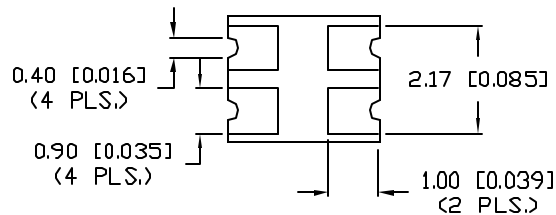
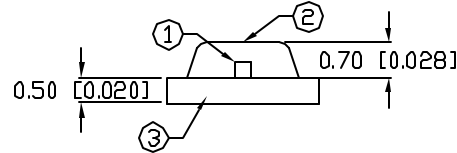


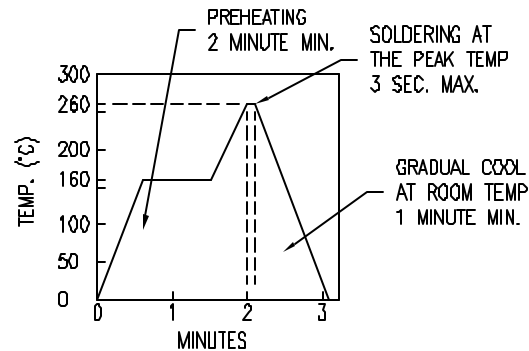
UNCONTROLLED DOCUMENT



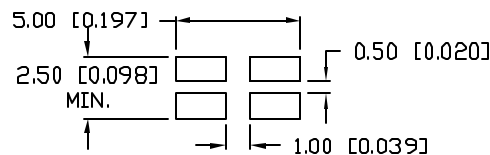
GREEN YELLOW



REFLOW PROFILE



RECOMMENDED SOLDER PAD LAYOUT



NOTES:

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

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

PART NUMBER
CCL-CRS10Y/G

REV.
E

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10695. & REDRAWN IN 3D.	1.12.01
B	E.C.N. #10967.	3.14.03
C	E.C.N. #11271.	9.12.05
D	E.C.N. #11148.	12.01.06
E	E.C.N. #11398.	03.02.07

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		585 (YELLOW)		nm	
		565 (GREEN)		nm	
FORWARD VOLTAGE		2.1/2.2	2.5/2.6	V_f	
REVERSE VOLTAGE	4.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY (Y/G)		8/12		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		180		2x theta	
EMITTED COLOR:		YELLOW/GREEN			
EPOXY LENS FINISH:		WATER CLEAR			

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*		100	mA
STEADY CURRENT		25	mA
POWER DISSIPATION		70/65	mW
DERATE FROM 25°C		-0.33	mW/ $^\circ\text{C}$
OPERATING TEMP.		-30 TO +75	$^\circ\text{C}$
STORAGE TEMP.		-40 TO +85	$^\circ\text{C}$

* $t < 10\mu\text{s}$

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

UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: $X=\pm 1$ (± 0.038), $XX=\pm 0.5$ (± 0.020), $XXX=\pm 0.25$ (± 0.010), $XXXX=\pm 0.127$ (± 0.005). LEAD SIZE= ± 0.05 (± 0.002), LEAD LENGTH= ± 0.75 (± 0.030). MIN.=^{+DECIMAL PRECISION}_{-0.00} MAX.=^{+0.00}_{-DECIMAL PRECISION}

REV.
E

PART NUMBER
CCL-CRS10Y/G

3.0mm x 2.5mm CERAMIC SURFACE MOUNT LED,
YELLOW & GREEN LEDS, WATER CLEAR LENS.

CONFIDENTIAL INFORMATION
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RELIABILITY NOTE
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

DRAWN BY: JC CHECKED BY: APPROVED BY: DATE: 12.01.06
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AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com