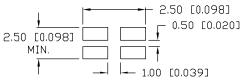


RECOMMENDED SOLDER PAD LAYOUT



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.

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

PART NUMBER CCL-CRS10R/G

G

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
А	REDRAWN.	4.27.93
В	CORRECTED WAVELENGTH.	1.14.94
С	UPDATED SOLDER SPECS.	9.27.94
D	E.C.N. #10390 & #10BRDR & REDRAWN.	10.2.98
Е	E.C.N. 10484. ADDED SOLDER PROFILE	12.11.98
F	E.C.N. #10695. & REDRAWN IN 3D.	1.12.01
G	E.C.N. #10967.	3.14.03

ELECTRO-OPTICAL CHARACT	ERISTICS	T _A =25'C	$I_{f} = 20$	mA			
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND		
PEAK WAVELENGTH		635 (RED)		nm			
	1	565 (GREEN	$ \rangle$	nm			
FORWARD VOLTAGE (R/G)		2.0/2.2	2.5/2.6	V_{f}			
REVERSE VOLTAGE	4.0			v_r	1 _r =100µA		
AXIAL INTENSITY (R/G)		4/12		mcd	If = 20mA		
VIEWING ANGLE		180		2x theta			
EMITTED COLOR: RED/GREEN							
EPOXY LENS FINISH: WATER CLEAR							

LIMITS OF SAFE OPER	PATION AT 25°C PER	CHIP	
PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURR	ENT*	100	mA
STEADY CURRENT		25	mA
POWER DISSIPATION		65	mW
DERATE FROM 25°C		-0.33	mW/°C
OPERATING TEMP.		-30 TO +75	°Ć
STORAGE TEMP.		-40 TO + 85	•C

* t<10uS

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

*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= +DECIMAL PRECISION MAX. = +0.00 (±0.000). MIN= +DECIMAL P

REV. PART NUMBER

G CCL—CRS10R/G

TAPE FEED DIRECTION -

3.0mm X 2.5mm CERAMIC SURFACE MOUNT LED, RED & GREEN LEDS, WATER CLEAR LENS.

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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.

EX We same Photons to Work For You INC.

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ct SCALE: N/A