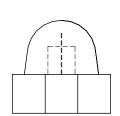


| PART NUMBER | CCL-LX45GT | REV. | J |
|-------------|-------------------------------------|------|------|
| DATE | E.C.N. NUMBER AND REVISION COMMENTS | | REV. |
| 11.20.95 | ADDED TAPE AND REEL SPEC. | | Α |
| 12.18.95 | E.C.N. #10105. | | В |
| 04.08.96 | E.C.N. #10143. | | С |
| 05.30.96 | E.C.N. #10176. | | D |
| 11.09.98 | E.C.N. #10BRDR. & REDRAWN. | | Ε |
| 04.28.99 | E.C.N. #10511./ADDED SOLDER CHART. | | F |
| 06.17.99 | E.C.N. #10524./CHANGED HEIGHT. | | G |
| 12.04.06 | E.C.N. #11148. | | H |
| 01.04.10 | E.C.N. #11148. | | 1 |
| 04.12.11 | E.C.N. #10BRDR. & REDRAWN. | | J |
| | | | |
| | | | |

| | | - | 1.99 [0.078]— | |
|--------------|--------------|--------------|---------------|--|
| G B | | | | |
| 1.20 [0.047] | 0:50 [0:020] | | | |



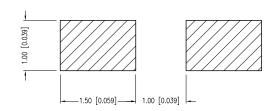
| ELECTRO-OPTICAL | CHARACTERISTICS | TA =25°C | If= 20mA | | |
|-------------------|-----------------|-------------|----------|----------|-----------|
| PARAMETER | MIN | TYP. | MAX | UNITS | TEST COND |
| PEAK WAVELENGTH | | 565 | | nm | |
| FORWARD VOLTAGE | | 2.2 | 2.6 | Vf | |
| REVERSE VOLTAGE | 5.0 | | | Vr | lr=100μA |
| AXIAL INTENSITY | | 7.0 | | mcd | If=20mA |
| VIEWING ANGLE | | 180 | | 2x theta | |
| EMITTED COLOR: | GREEN | | | | |
| EPOXY LENS FINISH | l: GREEN | TRANSPARENT | | | |

| LIMITS OF SAFE OPERATION AT 25 | řC . | | |
|--------------------------------|-------------|-------|--|
| PARAMETER | MAX | UNITS | |
| PEAK FORWARD CURRENT* | 800 | mA | |
| STEADY CURRENT | 30 | mA | |
| POWER DISSIPATION | 130 | mW | |
| DERATE FROM 25°C | -2.7 | mW/*C | |
| OPERATING TEMP. | -30 TO +85 | •C | |
| STORAGE TEMP. | -40 TO +120 | .C | |
| * t<10µS | | | |

 \top CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 3 STANDARDS

RECOMMENDED SOLDER PAD LAYOUT





*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= $^{+DECIMAL}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ PRECISION ARE: X=±1 (±0.039), X.XX=±0.5 (±0.020), X.XX=±0.5 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD SIZE=±0.05 (±0.002), LEAD SIZE=±0.05 (±0.003), MIN= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}$ LINICONTROLLED DOCLIMENT



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

CERAMIC CHIP, SURFACE, MOUNT LED, GREEN TRANSPARENT, TAPE AND REEL.

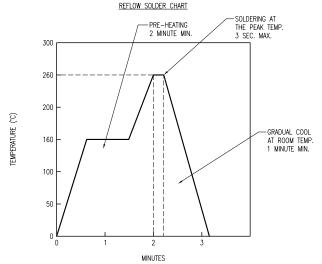
THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

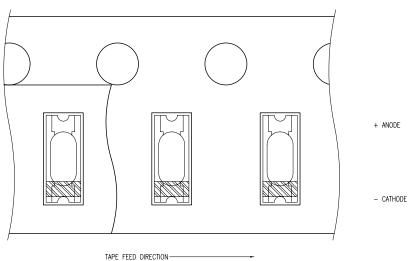
CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

| ION | DIVU | DIVITIOLL | LD DOCON | 1/2/1/ |
|-----|--------|-----------|-----------|--------|
| | DATE: | 04.12.11 | DRAWN BY: | AB |
| | PAGE: | 1 OF 2 | CHKD BY: | SS |
| | SCALE: | NTS | APRVD BY: | JD |
| | UNIT: | mm [INCH] | Po | |

UNCONTROLLED DOCUMENT

| PART NUMBER CCL—LX45GT REV. J DATE E.C.N. NUMBER AND REVISION COMMENTS REV 11.20.95 ADDED TAPE AND REEL SPEC. A 12.18.95 E.C.N. #10105. B 04.08.96 E.C.N. #10176. C 05.30.96 E.C.N. #10176. D 11.09.98 E.C.N. #10BRDR. & REDRAWN. E 04.28.99 E.C.N. #1011./ADDED SOLDER CHART. F 06.17.99 E.C.N. #10524./CHANGED HEIGHT. G 12.04.06 E.C.N. #11148. H 01.04.10 E.C.N. #11148. I 04.12.11 E.C.N. #10BRDR. & REDRAWN. J | | | |
|--|-------------|-------------------------------------|------|
| 11.20.95 ADDED TAPE AND REEL SPEC. A 12.18.95 E.C.N. #10105. B 04.08.96 E.C.N. #10143. C 05.30.96 E.C.N. #10176. D 11.09.98 E.C.N. #105RDR. & REDRAWN. E 04.28.99 E.C.N. #10511./ADDED SOLDER CHART. F 06.17.99 E.C.N. #10524./CHANGED HEIGHT. G 12.04.06 E.C.N. #11148. H 01.04.10 E.C.N. #11148. I | PART NUMBER | CCL-LX45GT REV. | J |
| 12.18.95 E.C.N. #10105. B 04.08.96 E.C.N. #10143. C 05.30.96 E.C.N. #10176. D 11.09.98 E.C.N. #10BRDR. & REDRAWN. E 04.28.99 E.C.N. #10511./ADDED SOLDER CHART. F 06.17.99 E.C.N. #10524./CHANGED HEIGHT. G 12.04.06 E.C.N. #11148. H 01.04.10 E.C.N. #11148. I | DATE | E.C.N. NUMBER AND REVISION COMMENTS | REV. |
| 04.08.96 E.C.N. #10143. C 05.30.96 E.C.N. #10176. D 11.09.98 E.C.N. #10BRDR. & REDRAWN. E 04.28.99 E.C.N. #10511./ADDED SOLDER CHART. F 06.17.99 E.C.N. #10524./CHANGED HEIGHT. G 12.04.06 E.C.N. #11148. H 01.04.10 E.C.N. #11148. I | 11.20.95 | ADDED TAPE AND REEL SPEC. | Α |
| 05.30.96 E.C.N. #10176. D 11.09.98 E.C.N. #10BRDR. & REDRAWN. E 04.28.99 E.C.N. #10511./ADDED SOLDER CHART. F 06.17.99 E.C.N. #10524./CHANGED HEIGHT. G 12.04.06 E.C.N. #11148. H 01.04.10 E.C.N. #11148. I | 12.18.95 | E.C.N. #10105. | В |
| 11.09.98 E.C.N. #10BRDR. & REDRAWN. E 04.28.99 E.C.N. #10511./ADDED SOLDER CHART. F 06.17.99 E.C.N. #10524./CHANGED HEIGHT. G 12.04.06 E.C.N. #11148. H 01.04.10 E.C.N. #11148. | 04.08.96 | E.C.N. #10143. | С |
| 04.28.99 E.C.N. #10511./ADDED SOLDER CHART. F 06.17.99 E.C.N. #10524./CHANGED HEIGHT. G 12.04.06 E.C.N. #11148. H 01.04.10 E.C.N. #11148. I | 05.30.96 | E.C.N. #10176. | D |
| 06.17.99 E.C.N. #10524_/CHANGED HEIGHT. G 12.04.06 E.C.N. #11148. H 01.04.10 E.C.N. #11148. I | 11.09.98 | E.C.N. #10BRDR. & REDRAWN. | Ε |
| 12.04.06 E.C.N. #11148. H 01.04.10 E.C.N. #11148. I | 04.28.99 | E.C.N. #10511./ADDED SOLDER CHART. | F |
| 01.04.10 E.C.N. #11148. | 06.17.99 | E.C.N. #10524./CHANGED HEIGHT. | G |
| | 12.04.06 | E.C.N. #11148. | Н |
| 04.12.11 E.C.N. #10BRDR. & REDRAWN. J | 01.04.10 | E.C.N. #11148. | I |
| | 04.12.11 | E.C.N. #10BRDR. & REDRAWN. | J |





*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= $^{+0.00}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0.000}$ PRECISION $^{+0.00}_{-0.000}$ MAX.= $^{+0.00}_{-0.000}$ PRECISION $^{+0.000}_{-0.000}$ PRECISION $^{+0.000}_{-0.0$ UNCONTROLLED DOCUMENT



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

| CERAMIC | CHIP, | SURFACE, | MOUNT | LED, | GREEN | TRANSPARENT, | TAPE AN | 1D REEL | |
|---------|-------|----------|-------|------|-------|--------------|---------|---------|--|
|---------|-------|----------|-------|------|-------|--------------|---------|---------|--|

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

CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

| "" | ,,- | 0,,,,, | | |
|----|--------|-----------|-----------|----|
| | DATE: | 04.12.11 | DRAWN BY: | AB |
| | PAGE: | 2 OF 2 | CHKD BY: | SS |
| | SCALE: | NTS | APRVD BY: | JD |
| | UNIT: | mm [INCH] | (Ps) | |
| | | | | |