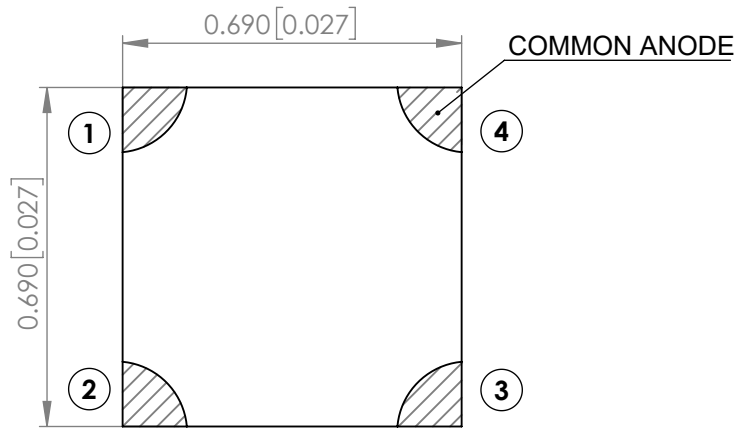
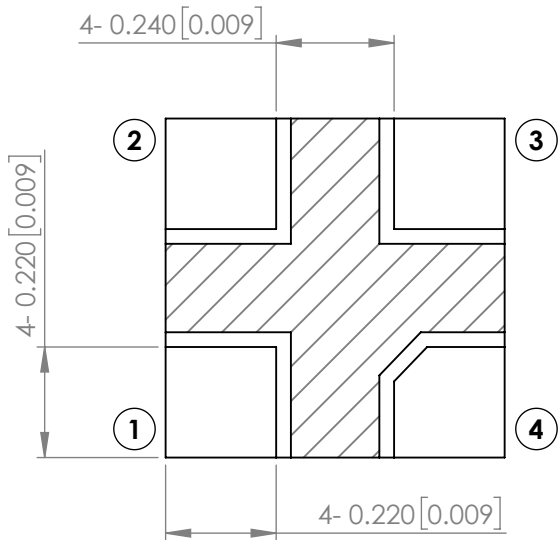
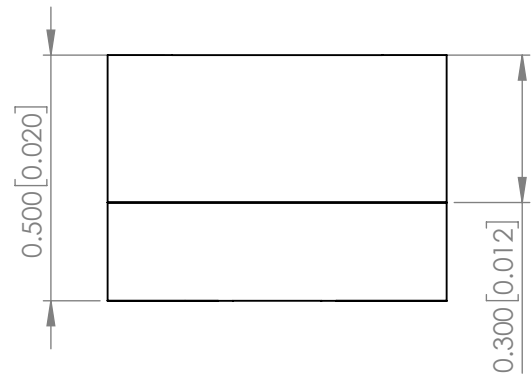
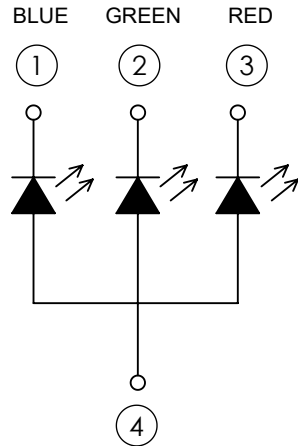


PRELIMINARY

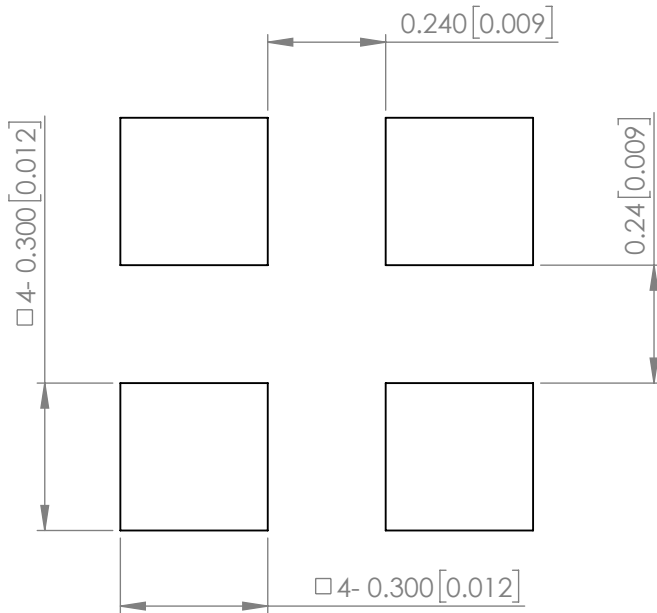
|             |                                    |                  |     |          |
|-------------|------------------------------------|------------------|-----|----------|
| PART NUMBER |                                    | SML-LX0202RGB-TR | REV | A        |
| REV         | E.C.N. NUBER AND REVISION COMMENTS |                  |     | DATE     |
| A           | ECN-Lumex201800193                 |                  |     | 12.21.18 |



**POLARITY**



**RECOMMENDED SOLDER PAD LAYOUT**



**ELECTRO-OPTICAL CHARACTERISTIC TA=25°C**

| PARAMETER          |   | MIN                | TYP | MAX | UNITS       | TEST COND |
|--------------------|---|--------------------|-----|-----|-------------|-----------|
| PEAK WAVELENGTH    | R | -                  | 630 | -   | nm          | If=10mA   |
|                    | G | -                  | 520 | -   |             | If=5mA    |
|                    | B | -                  | 465 | -   |             |           |
| FORWARD VOLTAGE    | R | -                  | 2.0 | 2.4 | Vf          | If=10mA   |
|                    | G | -                  | 2.8 | 3.4 |             | If=5mA    |
|                    | B | -                  | 2.9 | 3.4 |             |           |
| REVERSE CURRENT    | R | -                  | -   | 1   | uA          | VR=5V     |
|                    | G | -                  | -   | 1   |             |           |
|                    | B | -                  | -   | 1   |             |           |
| LUMINOUS INTENSITY | R | -                  | 75  | -   | mcd         | If=10mA   |
|                    | G | -                  | 90  | -   |             | If=5mA    |
|                    | B | -                  | 18  | -   |             |           |
| VIEWING ANGLE      |   | -                  | 140 | -   | 2x theta1/2 |           |
| EMITTED COLOR      |   | RED / GREEN / BLUE |     |     |             |           |
| EPOXY LENS FINISH  |   | WATER CLEAR        |     |     |             |           |

**ABSOLUTE MAXIMUM RATINGS TA=25°C**

| PARAMETER                     | MAX              | UNITS |
|-------------------------------|------------------|-------|
| PEAK FORWARD CURRENT (R/G/B)* | 30 / 15 / 15     | mA    |
| FORWARD CURRENT(R/G/B)        | 10 / 5 / 5       | mA    |
| POWER DISSIPATION             | 60               | mW    |
| REVERSE VOLTAGE               | 5                | V     |
| STORAGE TEMPERATURE           | -40 TO +100      | °C    |
| OPERATING TEMPERATURE         | -30 TO +80       | °C    |
| SOLDERING TEMPERATURE**       | 3 SEC. MAX. @260 | °C    |

\*t<10us

\*\*2.0mm FROM BODY.

MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS

STATIC DEVICE FOLLOW PROPER  
E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART

\*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= <sup>+DECIMAL PRECISION</sup>/<sub>-0.00</sub> MAX.= <sup>+0.00</sup>/<sub>-DECIMAL PRECISION</sub>



425 N. GARY AVE.  
CAROL STREAM, IL 60188  
PHONE : 800-278-5666  
FAX : 630-315-2150  
WEB : WWW.LUMEX.COM

0.69(L)\*0.69(W)\*0.5(H)mm, SURFACE MOUNT LED, 630nm RED / 520nm GREEN / 465nm BLUE LED, WATER CLEAR LENS, TAPE AND REEL.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE.\*\*

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.

DATE : 2018.12.21

DRAWN BY : C.S.

PAGE : 1 OF 2

CHKD BY : E.C.

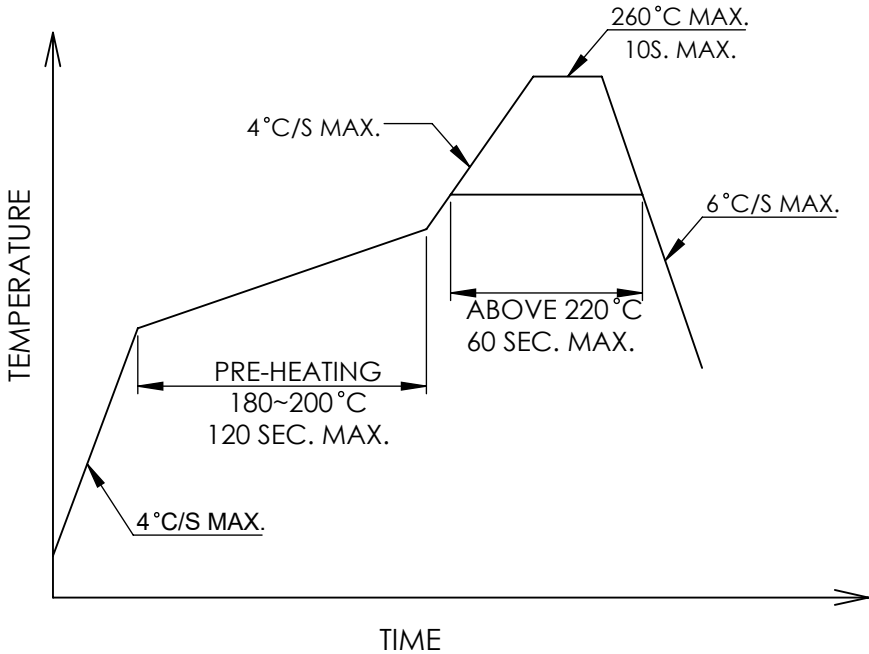
SCALE : NTF

APRVD BY : G.Y.

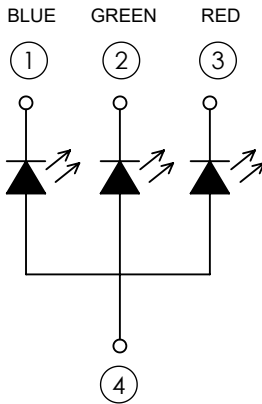
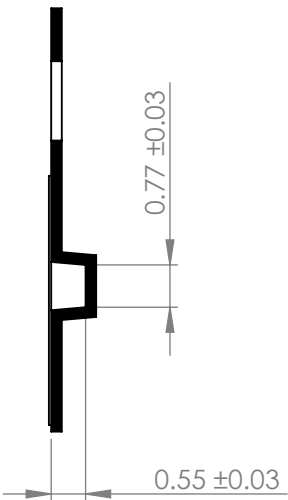
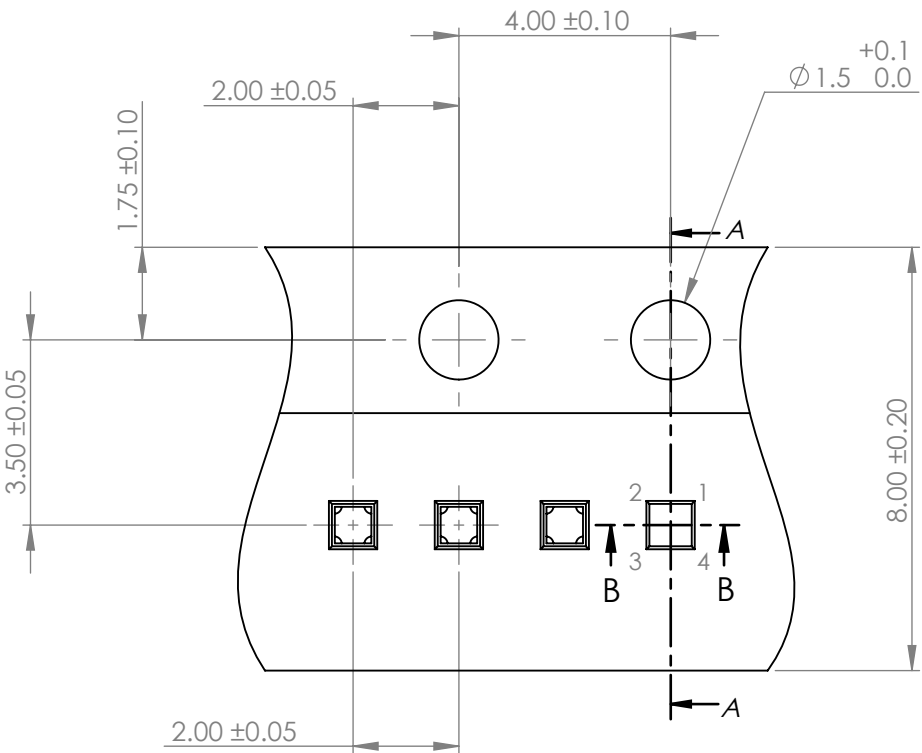
UNIT : mm [INCH]

Ⓢ

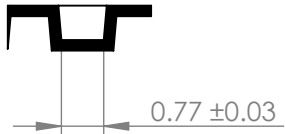
PROFILE



CARRIER TAPE DIMENSION



SECTION A-A



SECTION B-B

NOTE:  
1. 24000 PCS/REEL.

\*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= <sup>+DECIMAL PRECISION</sup>/<sub>-0.00</sub> MAX.= <sup>+0.00</sup>/<sub>-DECIMAL PRECISION</sub>



425 N. GARY AVE.  
CAROL STREAM, IL 60188  
PHONE : 800-278-5666  
FAX : 630-315-2150  
WEB : WWW.LUMEX.COM

0.69(L)\*0.69(W)\*0.5(H)mm, SURFACE MOUNT LED, 630nm RED / 520nm GREEN / 465nm BLUE LED, WATER CLEAR LENS, TAPE AND REEL.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE.\*\*

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.

DATE : 2018.12.21

DRAWN BY : C.S.

PAGE : 2 OF 2

CHKD BY : E.C.

SCALE : NTF

APRVD BY : G.Y.

UNIT : mm [INCH]

Ⓢ