

UNCONTROLLED DOCUMENT

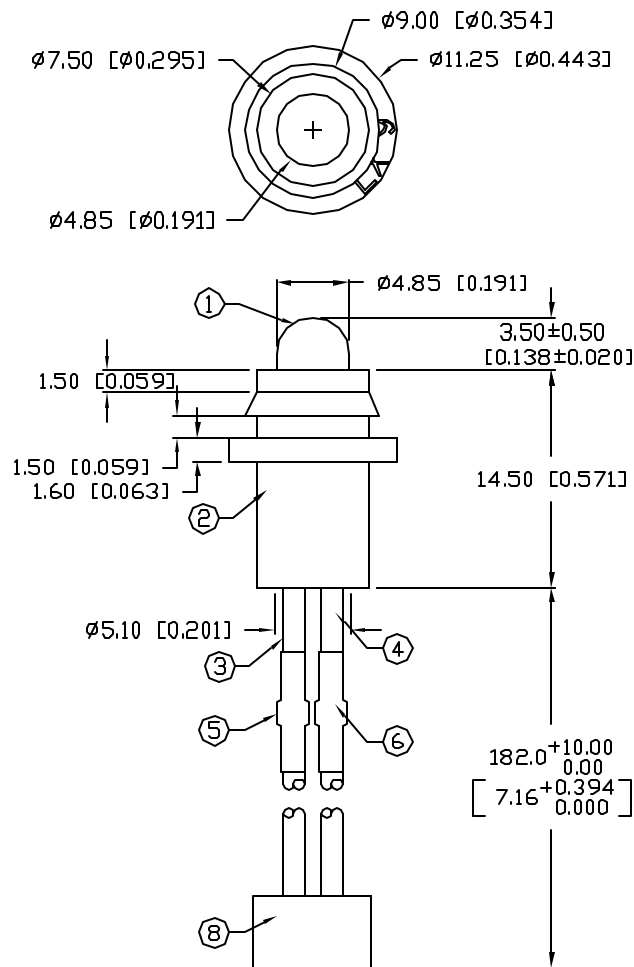
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PART NUMBER

REV.

SSI-LXH9USB40805

PRELIMINARY IN P/N DIR



## NOTES:

1. SSL-LX509F3GD BLUE LED.
2. SSH-LXH9 BLACK HOLDER.
3. 20 AWG WIRE, TIN OVERCOAT, WHITE ISULATION, CUT 2 PIECES 45mm AND 120mm LONG, STRIP BOTH ENDS 4mm AND 9.5mm.
4. 20 AWG WIRE, TIN OVERCOAT, BLACK ISULATION, CUT 2 PIECES 45mm AND 120mm LONG, STRIP BOTH ENDS 4mm AND 9.5mm.
5. RESISTOR: 10K OHM, 2 WATT, LOCATE 1.75" FROM REAR OF HOUSING. TRIM LEADS OF RESISTOR 18mm END TO END.
6. DIODE: 1N4001, LOCATE 1.75" FROM REAR OF HOUSING. TRIM LEADS OF DIODE 18mm END TO END.
7. INSULATE RESISTOR, DIODE AND SOLDER JOINTS WITH HEAT SHRINK (1/8" x 1" LONG).
8. AMP 2 PIN CONNECTOR.

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

| PARAMETER          | MIN           | TYP | MAX | UNITS    | TEST COND            |
|--------------------|---------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |               | 470 |     | nm       |                      |
| FORWARD VOLTAGE    |               | 120 |     | VAC      |                      |
| REVERSE VOLTAGE    | 5.0           |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |               | 20  |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |               | 60  |     | 2x theta |                      |
| EMITTED COLOR:     | BLUE          |     |     |          |                      |
| EPOXY LENS FINISH: | BLUE DIFFUSED |     |     |          |                      |

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$ 

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 20         | mA                   |
| POWER DISSIPATION              | 2000       | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |

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

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

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE:  $X=\pm 1$  ( $\pm 0.039$ ),  $XX=\pm 0.5$  ( $\pm 0.020$ ),  $XXX=\pm 0.25$  ( $\pm 0.010$ ),  $XXXX=\pm 0.127$  ( $\pm 0.005$ ). LEAD SIZE= $\pm 0.05$  ( $\pm 0.002$ ), LEAD LENGTH= $\pm 0.75$  ( $\pm 0.030$ ), MIN.= $\frac{+0.00}{-0.00}$  DECIMAL PRECISION MAX.= $\frac{+0.00}{-0.00}$  DECIMAL PRECISION

REV.

PART NUMBER

SSI-LXH9USB40805

T-5mm (T-1 3/4) LED, PANEL MOUNT INDICATOR,

470nm BLUE LED, GREEN DIFFUSED 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.



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