

Innovation Enabling Opto-Components

NEW
PRODUCTS

New From Lumex!

Right angle PCB SMT LED indicators in cool blue and ultra white colors. The new blue and white options provide a higher level of differentiation from traditional red, green, and yellow LEDs, drawing more attention with intense and vibrant color.

This package offers unequalled Board to Light center height of 3.5mm not previously available with one piece packages. This feature makes the units desirable when light needs to be visible for a greater distance or needs to be transported through a light-pipe.



Parts are in stock with Lumex distributors for immediate prototyping. For more detailed information visit us on the web [Click Here](#) to go to the SSF-LXH305 on www.lumex.com

Potential Uses

Computer
Telecommunications
Networking

Product Features

High Intensity 3mm LEDs
Right Angle
Surface Mount
New Blue and White Options
Board to Light Center Height 3.5mm
Two Piece Package
RoHS - Lead Free
Also Available SSF-LXH103 Package

Attached Product Specs
[Click Here!](#)

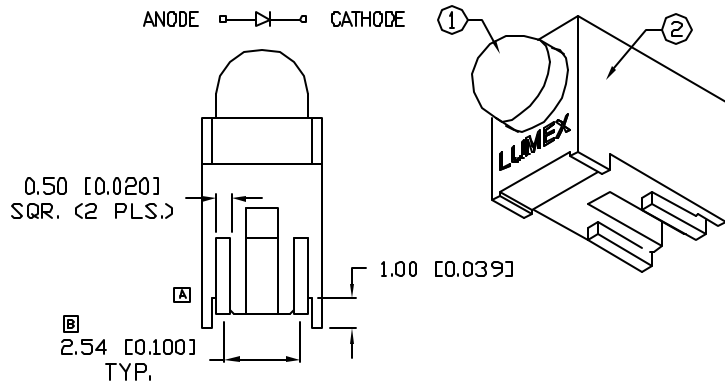
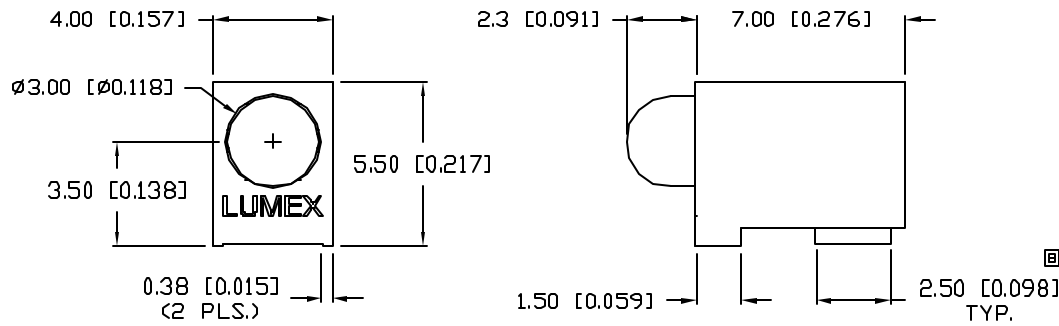


SSF-LXH305

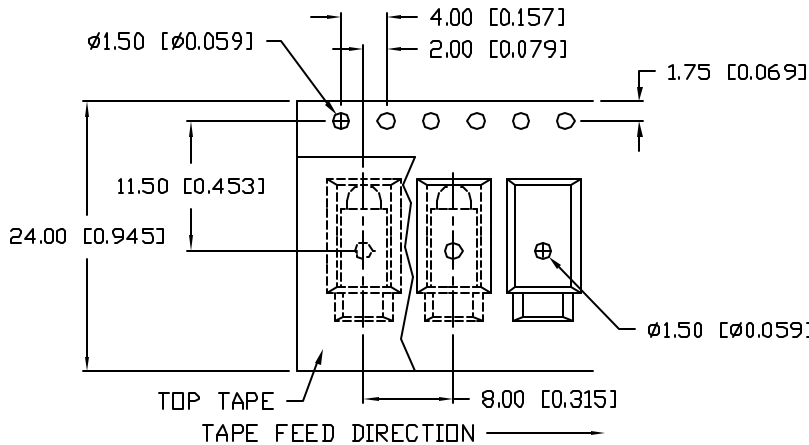
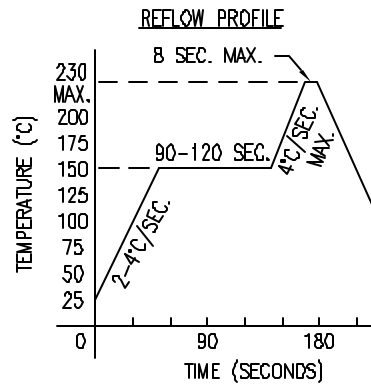
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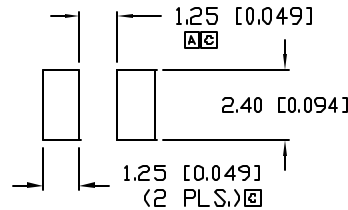
UNCONTROLLED DOCUMENT



PATENT PENDING



RECOMMENDED SOLDER PAD LAYOUT



PART NUMBER		REV.
SSF-LXH305UWC(-TR)		C
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10782.	11.6.01
B	E.C.N. #10855.	4.22.02
C	E.C.N. #10864.	5.15.02

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			550		nm	
FORWARD VOLTAGE	V_f		3.6	4.0	V	$I_f=20\text{mA}$
REVERSE VOLTAGE	V_r	5			V	$I_r=10\mu\text{A}$
AXIAL INTENSITY(*1)	I_v		800		mcd	$I_f=20\text{mA}$
CHROMATICITY	X		0.29			$I_f=20\text{mA}$
COORDINATES(*2)	Y		0.30			
VIEWING ANGLE			30		2x theta	
EMITTED COLOR:	WHITE					
EPOXY LENS FINISH:	WATER CLEAR					

*1. AXIAL INTENSITY TESTING CONDITION: 550nm WAVELENGTH.
*2. THE ICI STANDARD COLORIMETRIC SYSTEM.

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	SYMBOL	MAX	UNITS
PULSE FORWARD CURRENT	I_p	100*	mA
STEADY CURRENT	I_F	30	mA
POWER DISSIPATION	P_D	120	mW
OPERATING TEMP.	T_{OPR}	-30 TO +80	°C
STORAGE TEMP.	T_{STG}	-40 TO +100	°C
SOLDERING TEMP.		+260	°C
2.0mm FROM BODY			3 SEC. MAX

*DUTY 1/10 PULSE WIDTH 10ms

NOTES:

- SSL-LX305F4UWC, WHITE LED.
- SSH-LXH305, BLACK HOLDER.
- TR SUFFIX TO DESIGNATE TAPE AND REEL SUPPLIED.
- CARRIER TAPE #LXP-CARRIER24-56.

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

UNCONTROLLED DOCUMENT

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

REV.	PART NUMBER
C	SSF-LXH305UWC(-TR)

T-3mm (T-1) RIGHT ANGLE SURFACE MOUNT LED,
550nm ULTRA WHITE LED,
WATER CLEAR LENS, TAPE AND REEL

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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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