



We Tame Photons to Work for You!



Products Search Tools Solutions Literature Tech Notes Support Corporate

Products > LED Indicators > Panel Indicators > Round > Front Insertion > 3mm > Plastic Housing



### Features / Options

- ▶ Bi-Color Styles Optional
- ▶ State-of-the-Art, LED Technology
- ▶ Choice of LED Colors and Lens Finishes
- ▶ Insulated Lead Lengths Optional
- ▶ Easy installation through panel

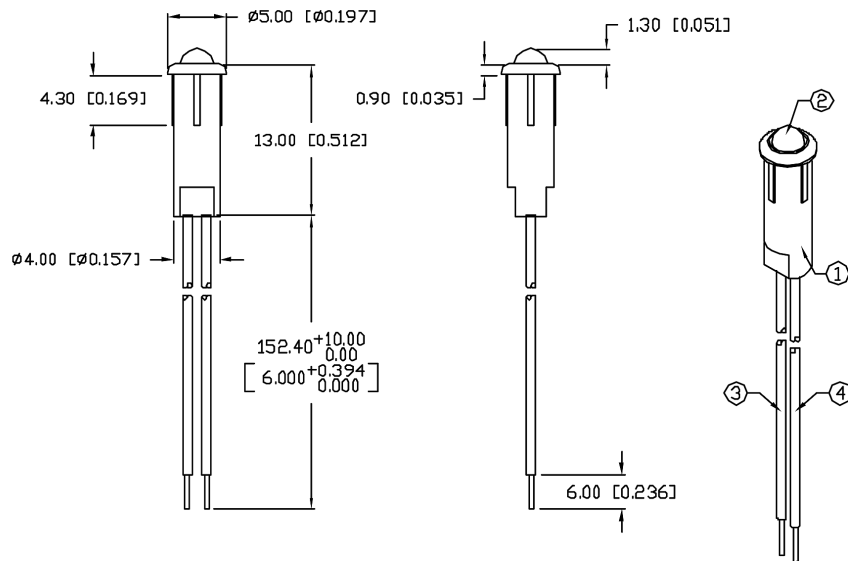
### Applications / Uses

- ▶ Front Panel Status Indicators
- ▶ Alarm/Warning Indicators
- ▶ Front Panel Circuit Fault Indicators
- ▶ Instrument Control Panels
- ▶ Medical Diagnostics Indicators
- ▶ Industrial Automation Control Panels

Part Number:	Brightness	Material	Emitted Color	Wavelength	Intensity	View Angle	Voltage
SSI-LXH312BID-150	STANDARD	GaAsP	Red	635	10	80	3-15V
SSI-LXH312GD-150	STANDARD	GaP	Green	565	30	60	2.1
SSI-LXH312GD5V-150	STANDARD	GaP	Green	565	20	60	5.0
SSI-LXH312HGW-150	STANDARD	GaP	Red/ Green	695/565	4/8	60	2.0/2.2
SSI-LXH312ID-150	STANDARD	GaAsP	Red	635	30	60	2.0
SSI-LXH312ID-5V150	STANDARD	GaAsP	Red	635	6	60	5.0
SSI-LXH312SID-150	HIGH	AlInGaP	Red	636	100	60	2.0
SSI-LXH312SOD-150	HIGH	AlInGaP	Orange	610	100	60	2.0
SSI-LXH312SRD-150	HIGH	GaAIAs	Red	660	80	60	1.7
SSI-LXH312SUGD-150	HIGH	AlInGaP	Green	574	50	60	2.2
SSI-LXH312SYD-150	HIGH	AlInGaP	Yellow	590	100	60	2.0

SSI-LXH312USBD-150		HIGH	InGaN	Blue	470	60	60	3.5
SSI-LXH312YD-150		STANDARD	GaAsP	Yellow	585	30	60	2.1
SSI-LXH312YD5V-150		STANDARD	GaAsP	Yellow	585	6	60	5.0

UNCONTROLLED DOCUMENT



NOTES:

1. SSH-LXH3121 HOLDER, BLACK NYLON 94-V.
2. SSL-LX3044ID LED, LEADS CUT TO 5mm.
3. ANODE LEAD: LXP-WST26ROTC, RED INSULATED LEAD, 26 AWG, CUT 158mm LONG, STRIP 3.0mm & 6.0mm.
4. CATHODE LEAD: LXP-WST26BLTOC, BLACK INSULATED LEAD, 26 AWG, CUT 158mm LONG, STRIP 3.0mm & 6.0mm.
5. MOUNTING HOLE:  $\phi 0.170'' - \phi 0.174''$

\*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= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION

PART NUMBER  
SSI-LXH3121D-150

REV.  
E

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	REDRAWN.	10.16.92
B	UPDATED SAFE OPER. SPECS.	1.20.95
C	ADDED TO NOTE #3.	5.12.95
D	E.C.N. #10178.	6.5.96
E	E.C.N. #10BRDR. & REDRAWN.	7.12.01

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635		nm	
FORWARD VOLTAGE		2.0	2.5	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY		30		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		$2x$ theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	RED DIFFUSED				

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	105	mW
DERATE FROM $25^\circ\text{C}$	-1.2	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY		3 SEC. MAX

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

UNCONTROLLED DOCUMENT

REV. PART NUMBER  
E SSI-LXH3121D-150

**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.



**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.

T-3mm LED BLACK PANEL INDICATOR WITH 6" WIRE LEADS,  
635nm HIGH INTENSITY RED LED, RED DIFFUSED LENS.