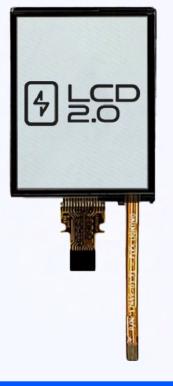




## **Overview**

LCD 2.0 can be used seamlessly in any lighting condition: from dark spaces to bright, direct sunlight. Sharp's reflective, MIP LCD technology enables Azumo's patented lightguide technology to deliver high quality images with ultra-low power consumption, extending the battery life of your device. The active matrix MIP LCD integrated with a highly efficient front light offers a superior user experience for a variety of applications where outdated, static HMI no longer suffices.

Solution Compared to a backlit LCD	<ul> <li>0.05mm thick, Azumo film is over</li> <li>5x thinner than alternative light guides</li> </ul>
SPI interface for <b>simple connectivity</b>	Superior <b>readability</b> in all lighting conditions
Sufficient brightness as low as 6 mW	Active matrix MIP LCD enables dynamic menu-driven, multi page HMI
Intrinsically safe with wide temperature range	



View Mechanical Drawing

Sharp Display P/N	LSO18B7DHO2
Resolution	230 (H) x 303 (V)
Active Area	27.60 mm (H) x 36.36 mm (V)
PPI	211
Display Colors	B&W
Outline 31 mm (W) x 41.46 mm (H) x 0.745 mm (D)	
Display Thickness	1.02 mm
Display Power Consumption (S	tatic Image) 15µW
Display Power Supply Voltage 5.0V (Analog) & 5.0V (Digital)	
Response Time, Rise + Fall	10 + 20 ms
Interface SPI	
Front Light Power Supply Voltag	ge 3.0 V
Front Light Power Consumption	n 6 - 75 mW
Front Light Brightness, Typ	TBD
Front Light Brightness Uniformit	ту, Тур <b>ТВD</b>
Contrast Ratio - Native LCD	25
Viewing Angle - Native LCD	60/60° (H) & 60/60° (V)
Storage temperature (C°)	-20°C ~ 70°C
Operating temperature (C°)	-30°C ~ 80°C

## \*Preliminary data. May be updated as testing continues. Latest update: 05/24/2023

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