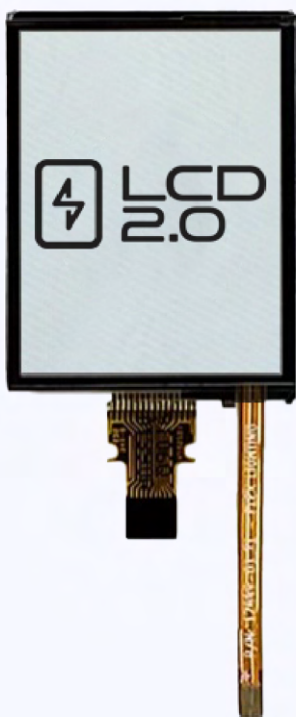


## Overview

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integrated with a highly efficient front light offers a superior user experience for a variety of applications where outdated, static HMI no longer suffices.

- ✓ **Less power** compared to a backlit LCD
- ✓ **0.05mm thick**, Azumo film is over **5x thinner** than alternative light guides
- ✓ SPI interface for **simple connectivity**
- ✓ Superior **readability** 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 (Static 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 Voltage	3.0 V
Front Light Power Consumption	6 - 75 mW
Front Light Brightness, Typ	TBD
Front Light Brightness Uniformity, Typ	TBD
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