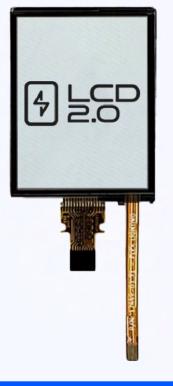




Overview

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integrated with a highly efficient front light offers a superior user experience for a variety of applications where outdated, static HMI no longer suffices.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