

Overview

Azumo's next generation OB (Optical Bonding) front light maintains all of the benefits of LCD 2.0 technology with the added benefit of cover lens and touch film compatibility. LCD 2.0 can be used seamlessly in any lighting condition: from dark spaces to bright, direct sunlight. The 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. Each pixel has an R/G/B stripe, providing 64 colors. The integrated front light significantly improves display color saturation and offers a superior user experience for a variety of applications.

- ✓ OB - Optical bonding capable (**cover lens & touch film compatible**)
- ✓ **Sufficient brightness** as low as 20 mW
- ✓ **Less power** compared to a backlit LCD
- ✓ Superior **readability** in all lighting conditions
- ✓ **Intrinsically safe** with wide temperature range
- ✓ 0.05mm thick, Azumo film is over **5x thinner** than alternative light guides



[View Mechanical Drawing](#)

Sharp Display P/N	LS021B7DD02
Resolution	240 x 320
Active Area	32.4 mm x 43.2 mm
PPI	188
Display Colors	64 Color
Outline	35.4 mm x 48.6 mm x 0.91 mm
Display Thickness	38.8 mm x 71.2 mm
Display Power Consumption (Static Image)	32 μ W
Display Power Supply Voltage	3.2V (VDD1) and 5.0V (VDD2)
Response Time, Rise + Fall	20 + 20 ms
Interface	Parallel Data Interface
Front Light Power Supply Voltage	3.0V
Front Light Power Consumption	20 - 450 mW
Front Light Brightness, Typ	125 nits at 300 mW
Contrast Ratio - Native LCD	25
Viewing Angle - Native LCD	60/60° (H) & 60/60°(V)
Storage temperature (C°)	-30°C ~ 80°C
Operating temperature (C°)	-20°C ~ 70°C