



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.

\bigotimes	OB - Optical bonding capable (cover lens & touch film compatible)
\oslash	Sufficient brightness as low as 20 mW

Less power compared to a backlit LCD

$\langle \cdot \rangle$	3	Superior readability in all lighting conditions

- Intrinsically safe with wide temperature range
- 0.05mm thick, Azumo film is over5x 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		
Display Thickness	38.8 mm x 71.2 mm	
Display Power Consumption (S	Static Image) 32 µW	
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 Volta	age 3.0V	
Front Light Power Consumptio	n 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	

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