## 1.26" Front Light Panel

11655-xx | Product Data Sheet | 2020



#### **Overview**

The **FLEx Front Light Panel** optical film is designed to laminate to the front surface of **Sharp reflective display (LS013B7DH05)** to provide high quality on-demand display lighting. This thin plastic panel incorporates only a single LED which enables product designers to develop ultra-thin devices and minimize battery use.

- One low-power LED (included in Front Light)
- Over 80x less power compared to traditional backlighting
- 0.05 mm thick FLEx film is over **5x thinner** than alternative lightguides
- Simple I/F and Connectivity to System Board

For more information:

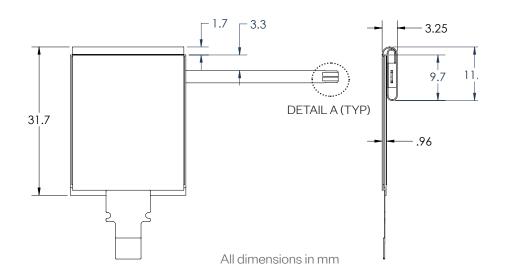
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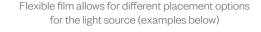
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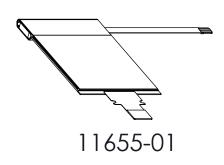
PHONE 773-295-0305

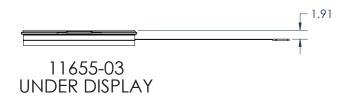


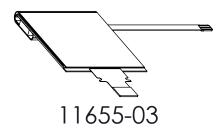
#### Mechanical

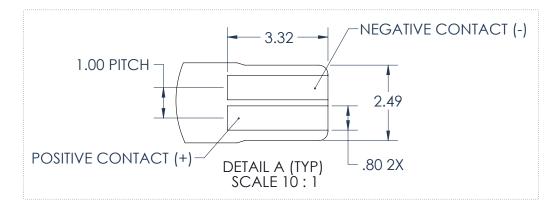














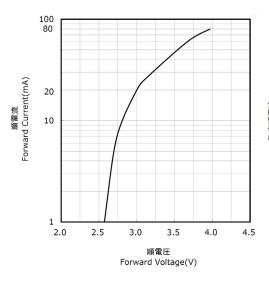
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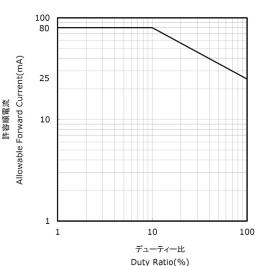
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#### **Electrical**

ltem	Symbol	Typical	Absolute Max	Unit
Forward Current	I <sub>F</sub>	5	25	mA
Pulse Forward Current	l <sub>EP</sub>		80	mA
Reverse Voltage	V <sub>R</sub>		5	V





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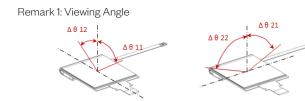
#### **Example ZIF Connectors:**

- Molex 503480-0400
- Molex 52745-0497
- Molex 54550-0471
- Molex 54548-0471 (bottom)
- Molex 505110-0492

### **Optical**

1.26" Sharp + Front Light (11655-03)								
Item		Symbol	TYP.	Unit	Remark			
Viewing Angle CR >2	V	Θ 11 Θ 12	60 30	° (Degree)	[Remark1]			
	Н	Θ 21 Θ 22	65 65	° (Degree)				
Contrast Ratio	Front light ON	CR	14		[Remark 2]			





Remark 2: Definition of Contrast Ratio

Contrast Ratio (CR) = Reflection intensity in white display
Reflection intensity in black display

Measurements taken with a Minolta Chroma Meter CS-100 at a 17" view distance