2.7" Front Light Panel

11103-xx | Product Data Sheet | 2018



Overview

The **FLEx Front Light Panel** optical film is designed to laminate to the front surface of **Sharp reflective display (LS027B7DH01)** 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

For more information:

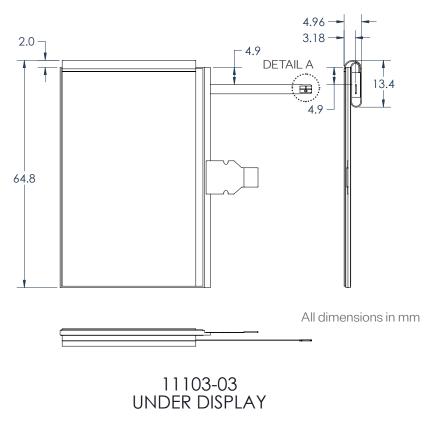
WEB flexlighting.com

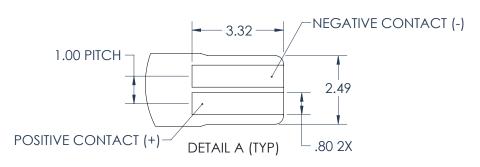
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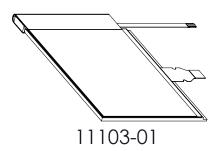


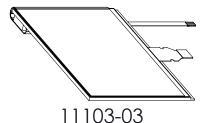
Mechanical

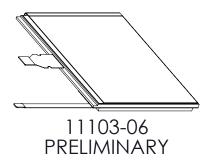




Flexible film allows for different placement options for the light source (examples below)







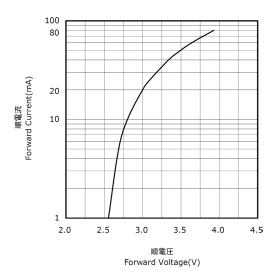
2.7" Front Light Panel

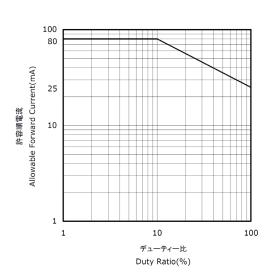
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Electrical

Item	Symbol	Typical	Absolute Max	Unit
Forward Current	I _F	10	25	mA
Pulse Forward Current	I _{EP}		80	mA
Reverse Voltage	V _R		5	V





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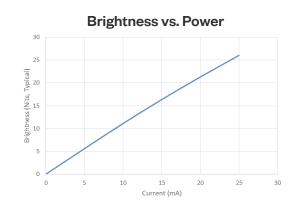
PHONE 773-295-0305

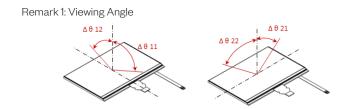
Example ZIF Connectors:

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

Optical

2.7" Sharp + Front Light (11103-03)								
Item		Symbol	TYP.	Unit	Remark			
Viewing Angle CR >2	V	Θ 11 Θ 12	65 65	° (Degree)	[Remark 1]			
	Н	Θ 21 Θ 22	30 40	° (Degree)				
Contrast Ratio	Front light ON	CR	10		[Remark 2]			





Remark 2: Definition of Contrast Ratio

Contrast Ratio (CR) = $\frac{\text{Reflection intensity in white display}}{\text{Reflection intensity in black display}}$

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