1.26" Front Light Panel

11655-01 | Product Data Sheet | 2018



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

For more information:

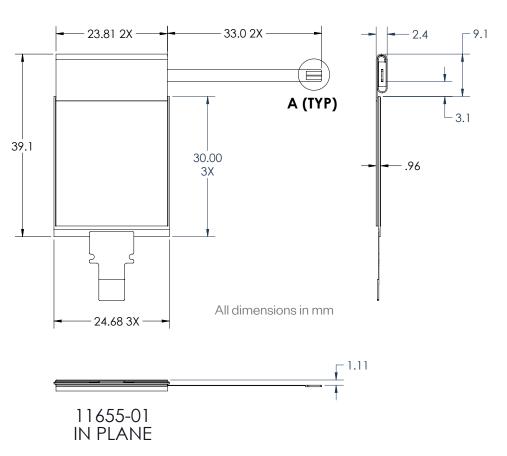
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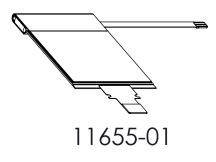
PHONE 773-295-0305

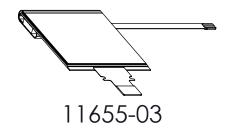


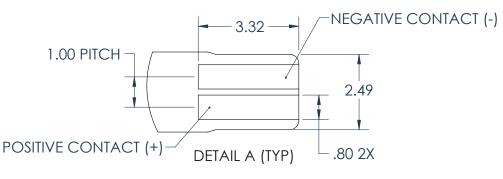
Mechanical



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









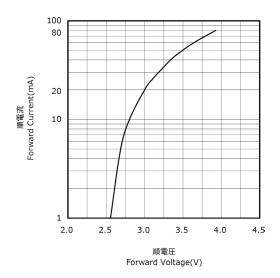
1.26" Front Light Panel

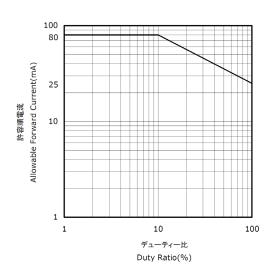
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Electrical

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





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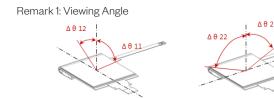
Example ZIF Connectors:

- 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)	[Remark 1]			
	Н	Θ 21 Θ 22	65 65	° (Degree)				
Contrast Ratio	Front light ON	CR	14		[Remark 2]			





Remark 2: Definition of Contrast Ratio

Reflection intensity in

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

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