

1.03" Front Light Panel

13264-01 | Product Data Sheet | 2020



Overview

The **FLEX Front Light Panel** optical film is designed to laminate to the front surface of **Kyocera reflective display (TN013ANVNANN)** 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

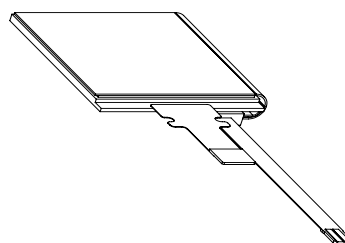
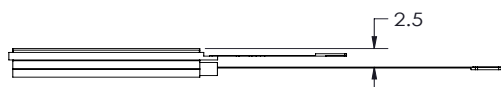
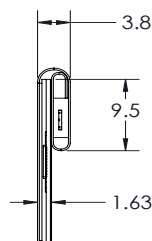
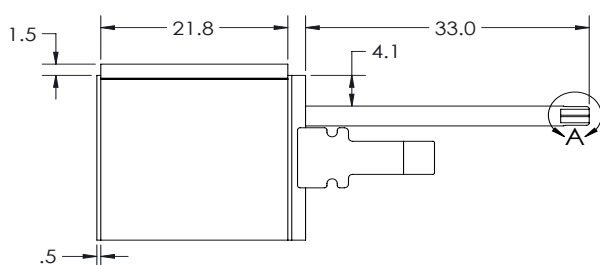
For more information:

WEB flexlighting.com

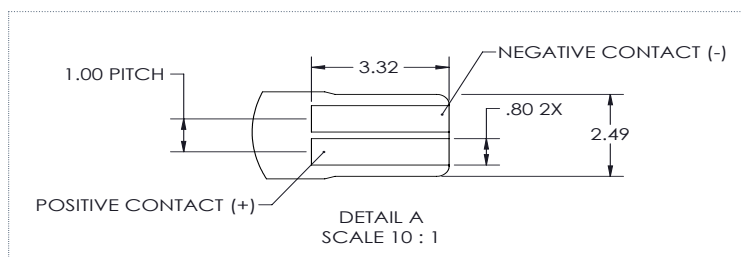
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Mechanical



PRELIMINARY



All dimensions in mm

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Electrical

Item	Symbol	Typical	Absolute Max	Unit
Forward Current	I_F	5	25	mA
Pulse Forward Current	I_{FP}	--	80	mA
Reverse Voltage	V_R	--	5	V

For more information:

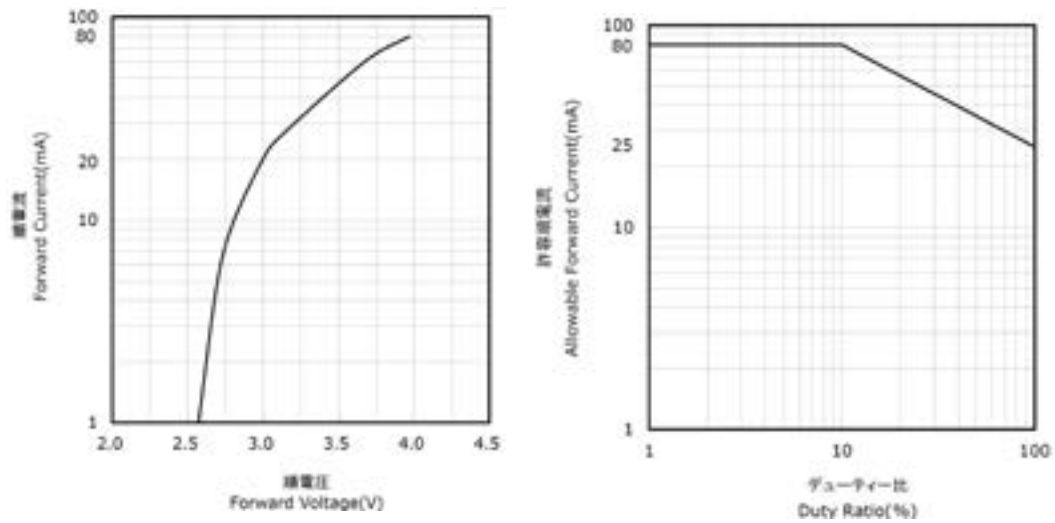
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Example ZIF Connectors:

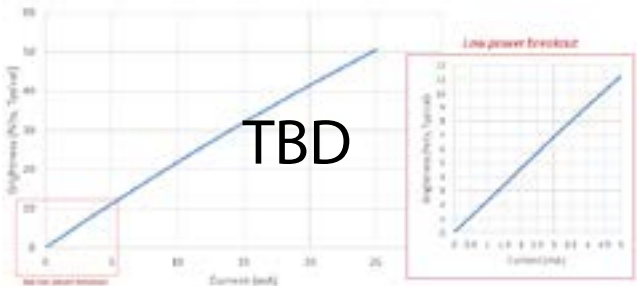
- Molex 503480-0400
- Molex 52745-0497
- Molex 54550-0471
- Molex 54548-0471 (bottom)
- Molex 505110-0492



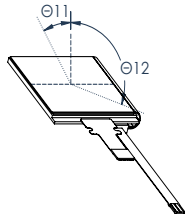
Optical

1.03" Kyocera + Front Light (13264-01)					
Item		Symbol	TYP.	Unit	Remark
Viewing Angle CR >2	V	Θ 11 Θ 12	60 30	° (Degree)	[Remark 1]
	H	Θ 21 Θ 22	65 65	° (Degree)	
Contrast Ratio	Front light ON	CR	14	--	[Remark 2]

Brightness vs. Power

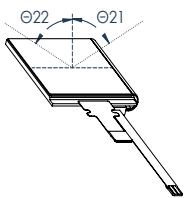


Remark 1: Viewing Angle



Remark 2: Definition of Contrast Ratio

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



Ref Image 1

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