2.16" Front Light Panel

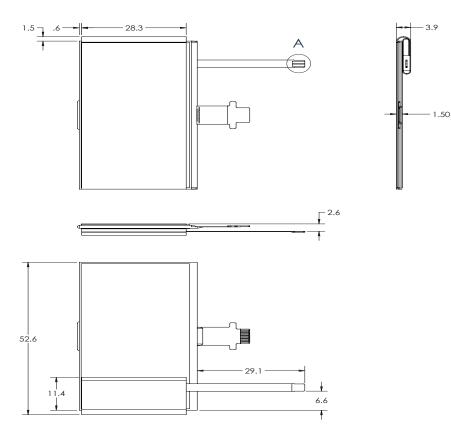
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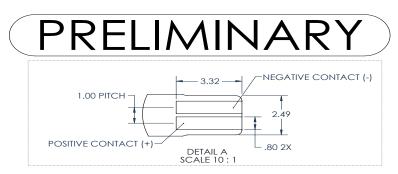
Overview

The **FLEx Front Light Panel** optical film is designed to laminate to the front surface of **Kyocera reflective display (TNO216ANVNANN)** to provide high quality ondemand 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

Mechanical





All dimensions in mm

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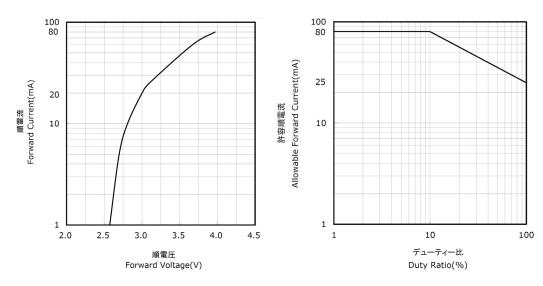


2.16" Front Light Panel

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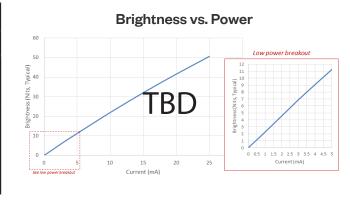
Electrical

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

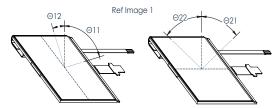


Optical

2.16" Kyocera + Front Light (13266-01)									
ltem		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 1: Viewing Angle



Remark 2: Definition of Contrast Ratio

Reflection intensity in white display Contrast Ratio (CR) =

Reflection intensity in black display

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FLEx

Example ZIF Connectors:

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

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

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