1.8" Front Light Panel

13265-01 | Product Data Sheet | 2020

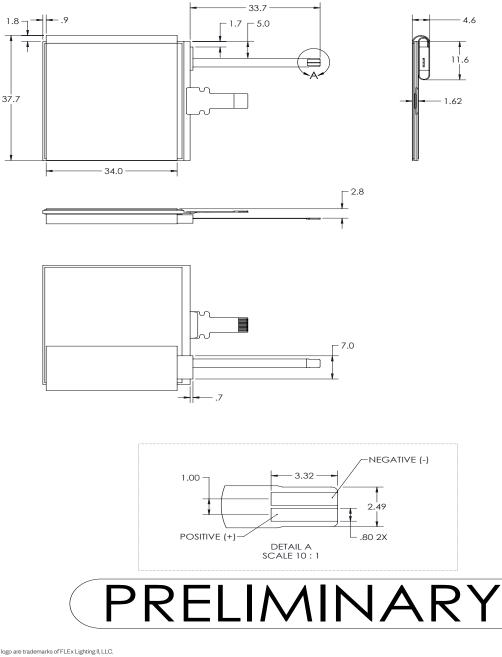
Overview

The **FLEx Front Light Panel** optical film is designed to laminate to the front surface of **Kyocera reflective display (TN0181ANVNANN)** 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

For more information: web flexlighting.com contact flexlighting.com/contact phone 773-295-0305

Mechanical



All dimensions in mm

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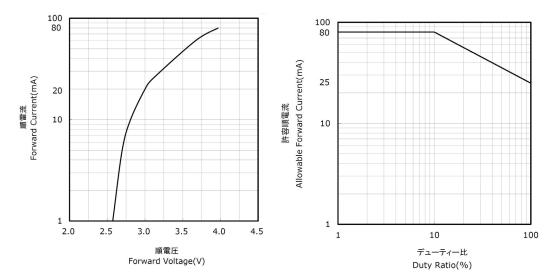
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FLEX

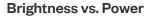
Electrical

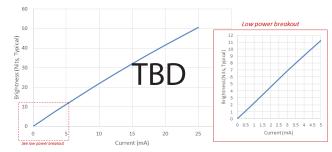
| ltem | Symbol | Typical | Absolute Max | Unit |
|-----------------------|----------------|---------|--------------|------|
| Forward Current | I _F | 5 | 25 | mA |
| Pulse Forward Current | l FP | | 80 | mA |
| Reverse Voltage | V _R | | 5 | V |



Optical

| 1.8" Kyocera + Front Light (13265-01) | | | | | | | | |
|---------------------------------------|-------------------|--------------|----------|------------|------------|--|--|--|
| ltem | | Symbol | TYP. | Unit | Remark | | | |
| Viewing Angle CR >2 | V | Θ 11 Θ 12 | 60 30 | ° (Degree) | [Remark 1] | | | |
| | Н | Ο 21 Ο 22 | 65 65 | ° (Degree) | | | | |
| Contrast Ratio | Front light ON | CR | 14 | | [Remark 2] | | | |

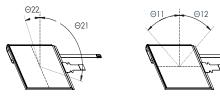




Reflection intensity in white display

Reflection intensity in black display

Remark 1: Viewing Angle



Ref Image 1

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

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Remark 2: Definition of Contrast Ratio

Contrast Ratio (CR) =

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Example ZIF Connectors:

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

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