1.26" Front Light Panel

11655-xx | Product Data Sheet | 2020



Overview

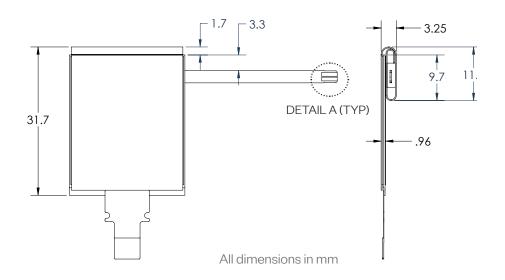
The FLEx Front Light Panel optical film is designed to laminate to the front surface of Sharp reflective display (LS013B7DH05) to provide high quality on-demand display lighting. This thin plastic panel incorporates only a single LED which enables product designers to develop ultra-thin devices and minimize 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
- Simple I/F and Connectivity to System Board

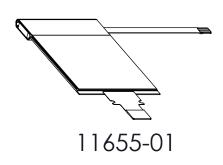
For more information: WEB flexlighting.com CONTACT flexlighting.com/contact PHONE **773-295-0305**

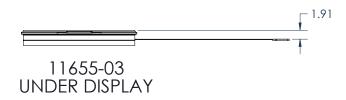


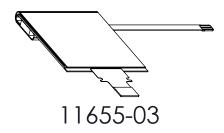
Mechanical

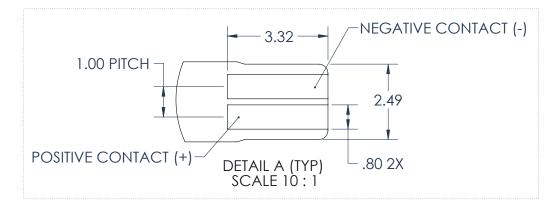


Flexible film allows for different placement options for the light source (examples below)











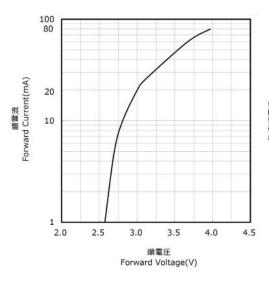
1.26" Front Light Panel

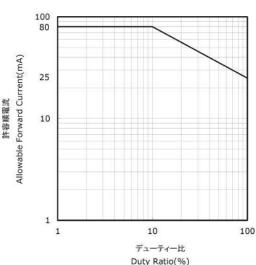
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Electrical

| ltem | 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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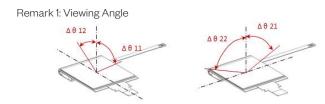
Example ZIF Connectors:

- 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

Contrast Ratio (CR) = Reflection intensity in white display
Reflection intensity in black display

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