2.7" (Color) Front Light Panel

12380-01 | Product Data Sheet | 2018

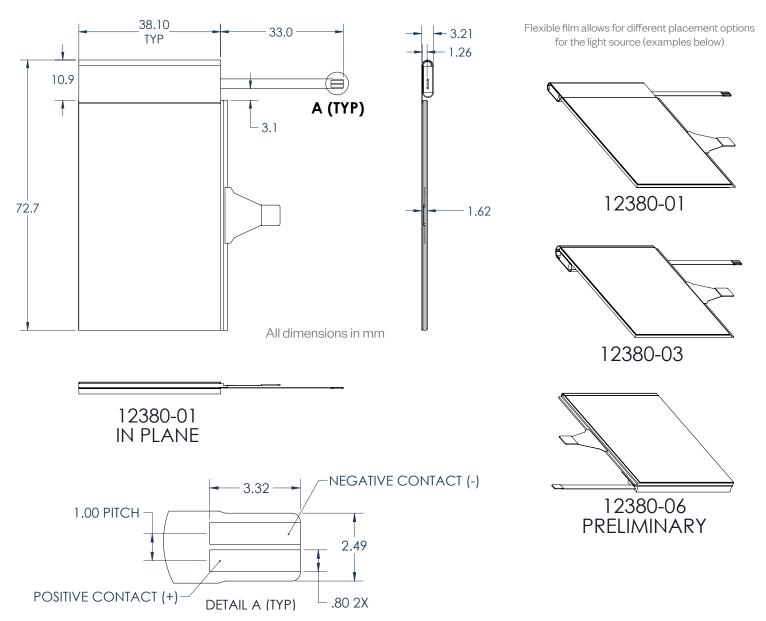
Overview

The **FLEx Front Light Panel** optical film is designed to laminate to the front surface of **JDI reflective display (LPM027M128B)** 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: WEB flexlighting.com CONTACT flexlighting.com/contact PHONE 773-295-0305

Mechanical



FLEx and the FLEx logo are trademarks of FLEx Lighting II, LLC. The Sharp logo is a registered trademark of Sharp Corporation @2017 FLEx Lighting II, LLC. All rights reserved. Document Number: 13052-01_T1

These product sheets are the proprietary product of FLEx Lighting II, LLC (FLEx) and may not be reproduced in any form without the express written consent of FLEx. The application examples in these specification sheets are provided to explain the representative applications of the device and are not intended to guarantee any industrial property right or other rights or license you to use them. FLEx assumes no responsibility for any problems related to any industrial property right of a third party resulting from the use of the device. FLEx reserves the right to make changes to the specifications, characteristics, data, materials, structures and other contents at any time without notice in order to improve design or reliability. FLEx takes no responsibility for damage caused by improper use of the device. Contact a FLEx sales representative for any questions about using this device.

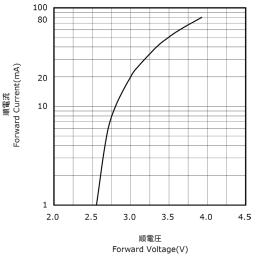


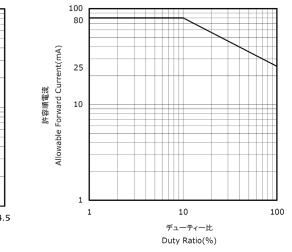
2.7" (Color) Front Light Panel

12380-01 | Product Data Sheet | 2018

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





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

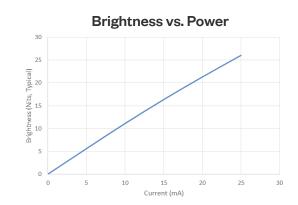
FLEx

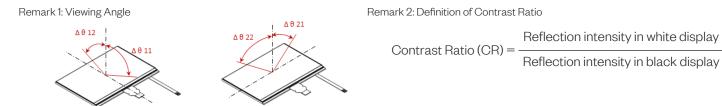
Example ZIF Connectors:

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

Optical

2.7" JDI + Front Light (12380-01)								
ltem		Symbol	TYP.	Unit	Remark			
Viewing Angle CR >2	V	Θ 11 Θ 12	65 65	° (Degree)	[Remark 1]			
	Н	Θ 21 Θ 22	30 40	° (Degree)				
Contrast Ratio	Front light ON	CR	14		[Remark 2]			





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

FLEx and the FLEx logo are trademarks of FLEx Lighting II, LLC. The Sharp logo is a registered trademark of Sharp Corporation @2017 FLEx Lighting II, LLC All rights reserved. Document Number: 13052-01_T1

These product sheets are the proprietary product of FLEX Lighting II, LLC ("FLEX") and may not be reproduced in any form without the express written consent of FLEX. The application examples in these specification sheets are provided to explain the representative applications of the device and are not intended to guarantee any industrial property right or other rights or license you to use them. FLEX assumes no responsibility for any problems related to any industrial property right or data, materials instructures and other contents at any time without notice in order to improve design or reliability. FLEX takes no responsibility for damage caused by improper use of the device. Contact a FLEX sales representative for any questions about using this device.