



CFA-10084 ePaper Adapter Board



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1. General Information

Datasheet Revision History

Datasheet Release: **2018-07-26**
Datasheet for the CFA-10084 ePaper Adapter Board

Product Change Notifications

You can check for or subscribe to [Part Change Notices](#) for this part on our website.

Variations

Slight variations between lots are normal (e.g., contrast, color, or intensity).

Volatility

This display module has volatile memory.

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2. Introduction

This ePaper adapter board enables quick and easy setup for the ePaper display modules. It's compatible with our entire line of ePaper display modules.

All of the components are on one side of the board for easy attachment to the back of any ePaper display. This backpack style adapter board minimizes the amount of space needed for your design.

- Overall dimensions (mm): 30 (W) x 26 (H)
- Weight: 2.4 grams
- Pin Count: 8

3. Absolute Maximum Ratings

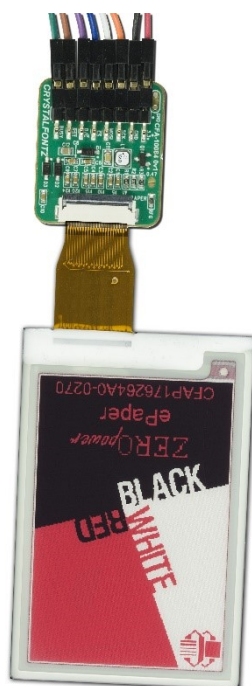
Parameter	Symbol	Min	Max	Unit
Supply Voltages for Logic	V _{DD}	+3.3	5.5	V
Operating Temperature	T _{OP}	-20	70	°C
Storage Temperature	T _{STG}	-30	80	°C
Humidity Range (non-condensing)	RH	10	90	%

Notes:

- (1) Functional operation should be restricted to the limits in the ePaper datasheet used in conjunction with this adapter board.
- (2) These are stress ratings only. Extended exposure to the absolute maximum ratings listed above may affect device reliability or cause permanent damage.

4. Connection Information

The ZIF-end of the ePaper display should be placed into the ZIF connector on the adapter board so that when the components of the adapter board are facing up, the display is also facing up, see example below.





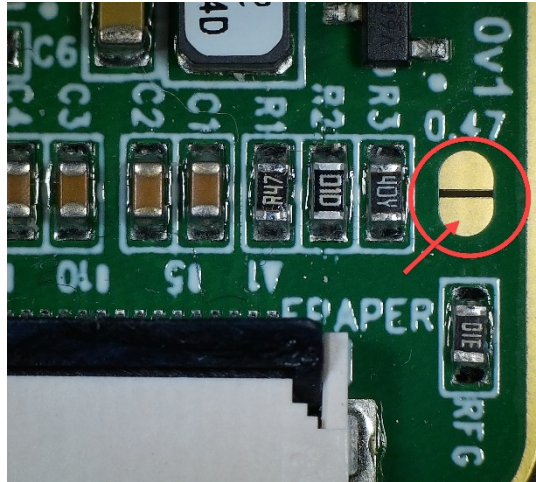
5. Jumper Locations and Functions

Each ePaper display module has its own datasheet on the product's webpage. Please refer to the datasheet for which value to use between RESE and GND: 0.47Ω or 3Ω .

Note: When you order one of our ePaper bundle kits, the jumper will be configured correctly based on the ePaper display in the bundle.

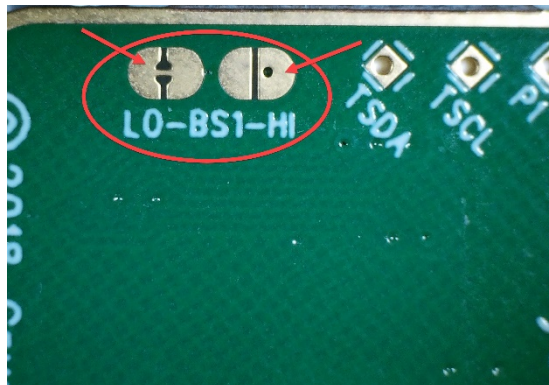
5.1. RESE Jumper

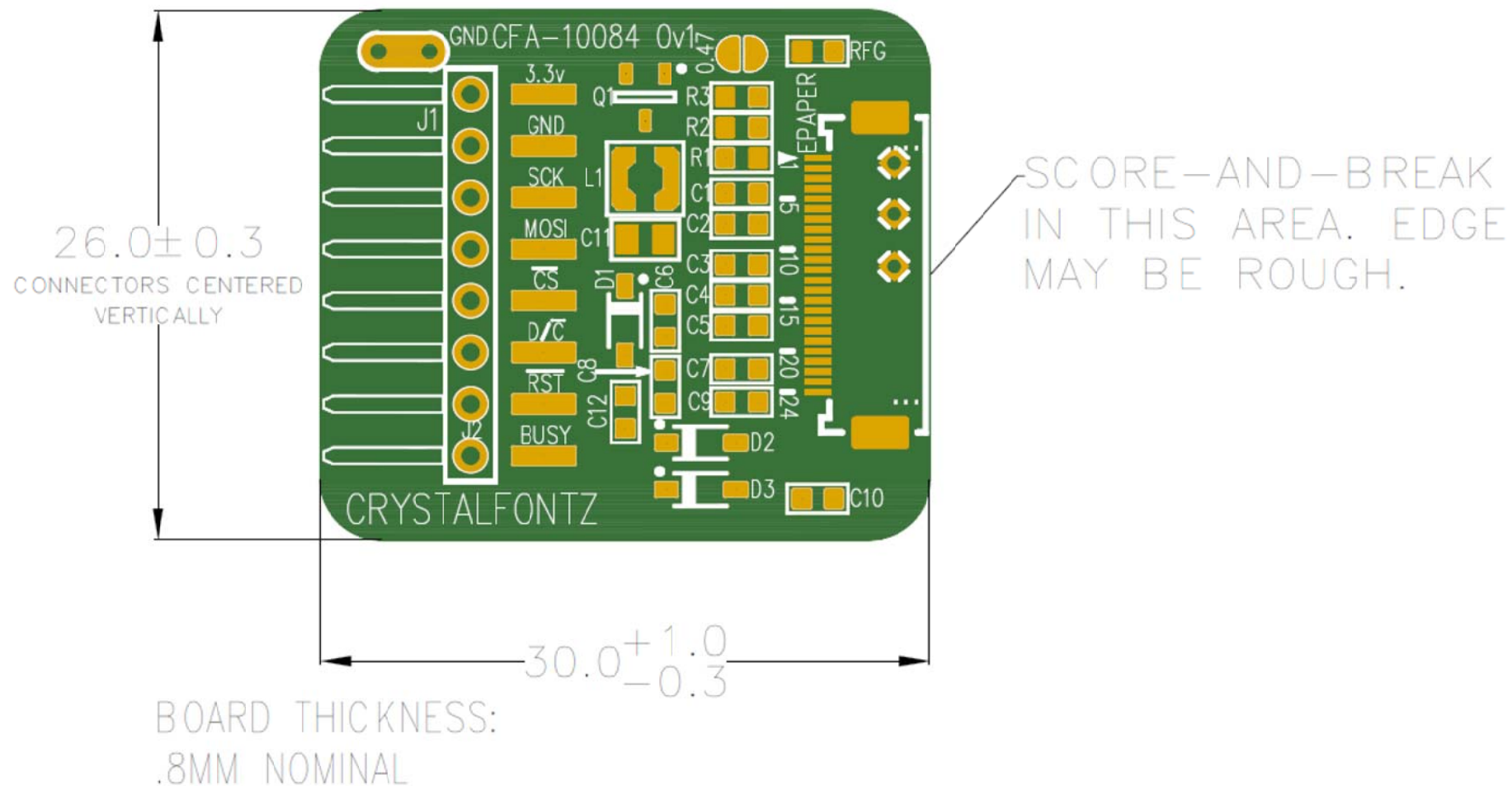
- o Shorted: the value from RESE to GND is 0.47Ω
- o Open: the value from RESE to GND is 3Ω (default)



5.2. BS1 Jumpers (SPI)

- o When both conditions are true: shorted HI and open LO = 3-wire SPI mode
- o When both conditions are true: shorted LO and open HI = 4-wire SPI mode (default)





PART NUMBER(S)

CFA-10084 Adapter Board

DRAWING NUMBER

CFA-10084 master

SCALE

Not to Scale

UNITS

Millimeters

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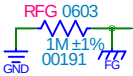
WWW.CRYSTALFONTZ.COM

DATE

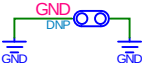
2018-07-05

REV	ENGINEER	DATE	REMARKS
0v0	BAC	2018-04-04	Initial Creation
0v1	BAC	2018-05-17	Ind val, C12 val, JP_OP47 open, CN FPC
-	-	-	-
-	-	-	-
-	-	-	-

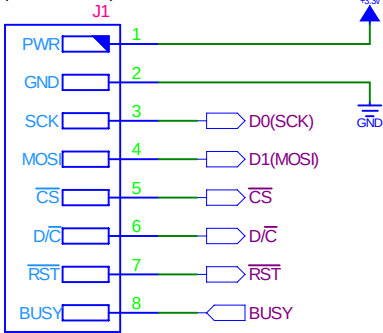
ESD border discharge



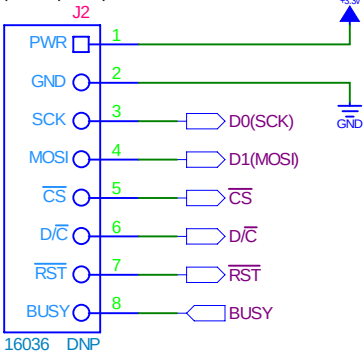
Scope Ground



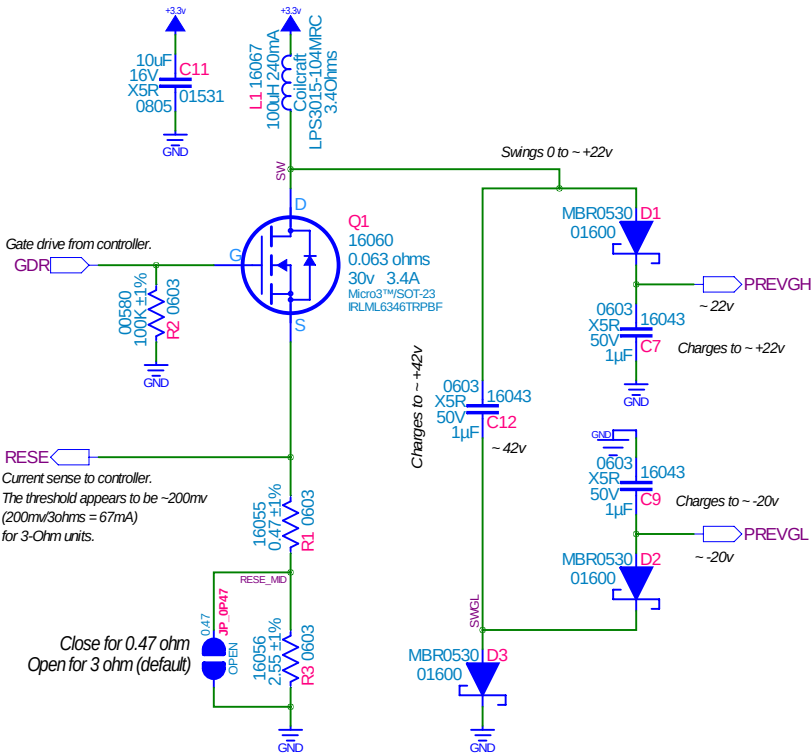
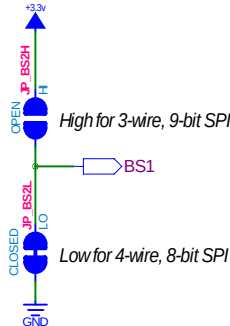
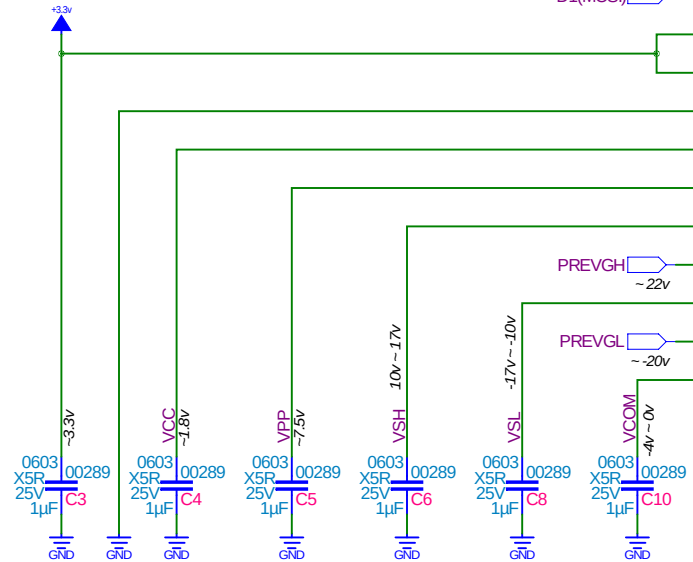
0.1" low-profile SMT header
(default, loaded)



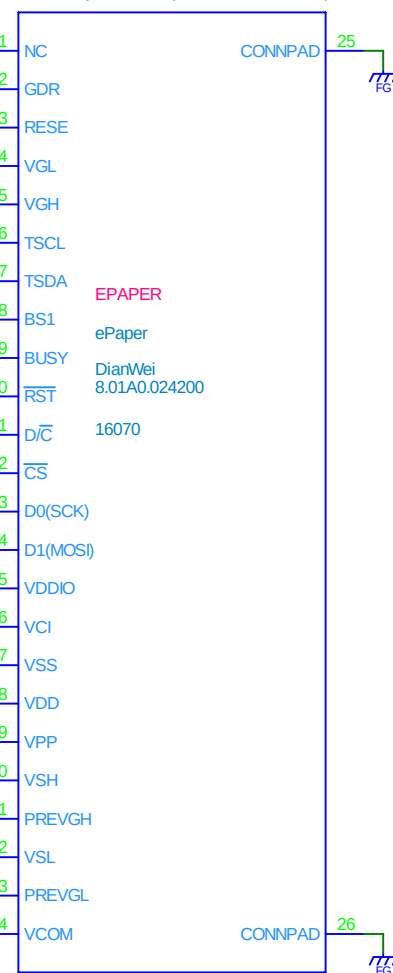
Holes for 0.1" through-hole header
(DNP, optional)



VOLTAGE GENERATION



Mates to Crystalfontz 24-pin CFAP Series ePaper



Plating of ePaper FPC is gold (AU), therefore the contact plating of this connector should also be gold. Molex 0524352-471 for example.

Example design for reference only.

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CFA-10084: ePaper Adapter Board 24-pin

Page 1/1: Schematic

PRODUCT NAME: CFA-10084

PRODUCT REVISION: 0v1

PCB NUMBER: PCB-10084

PCB REVISION: 0v1