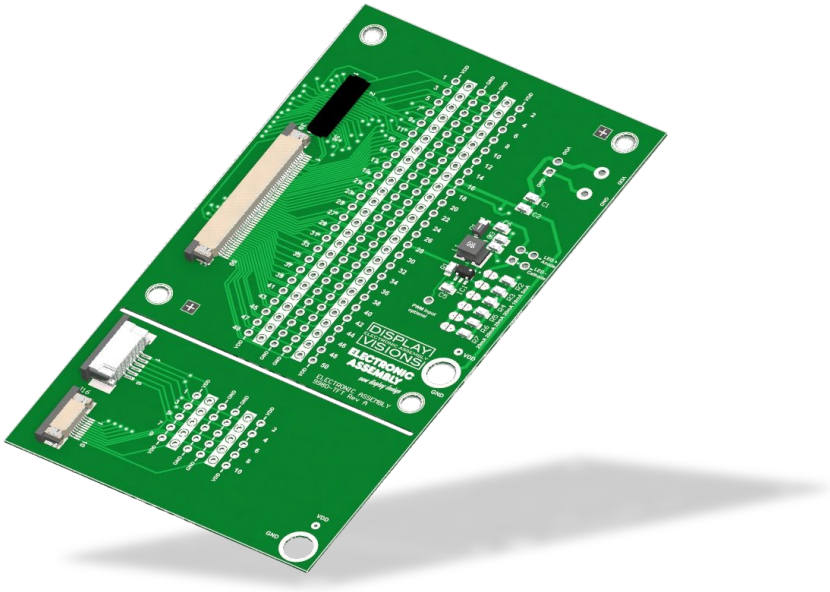
EA 9980-TFT

INTERFACEBOARD FOR TFT DISPLAYS INCL. LED DRIVER



Outline dimension 60x106 mm

FEATURES

- ADAPTORBOARD EA TFT DISPLAYS
- ZIFF CONNECTOR 50 PINS, 0.5 mm AND 39 PINS 0.3 mm
- LED DRIVER INCLUDED (ADJUSTABLE 5~95 mA)
- SUPPORTS TOUCH PANEL VIA ZIFF CONNECTOR 6 PINS 1.0mm
- SUPPORTS TOUCH PANEL VIA ZIFF CONNECTOR 10 PINS 0.5mm
- TOP AND BOTOM CONTACT FPC CONNECTORS

ORDERING CODE

• INTERFACEBOARD FOR TFT DISPLAYS	**EA 9980-TFT**

DISPLAY VISIONS GmbH
Zeppelinstraße 19
D-82205 Gilching
Germany

Fon: +49 (0)8105-7780 90
Fax: +49 (0)8105-7780 99
e-Mail: info@lcd-module.de
Web: www.lcd-module.com

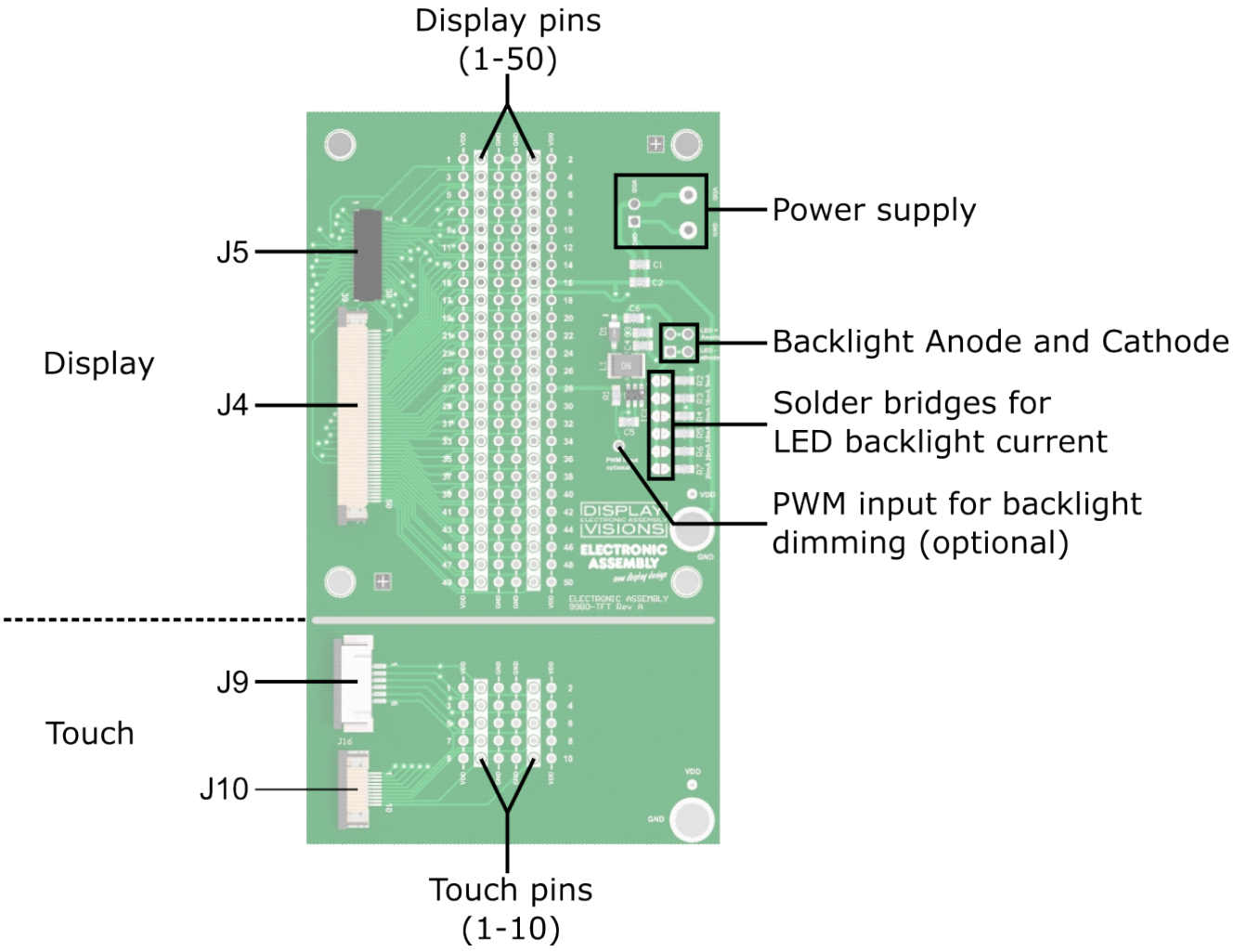
Issue 08.2026

GENERAL

The EA 9980-TFT is an interface board suitable for EA TFT displays. The board is designed to provide an easy and fast connection to the EA TFT displays. The 2.54 mm pitch allows easy connection to breadboards of various microcontroller manufacturers as well as to the Arduino- or Raspberry PI -world.

HARDWARE

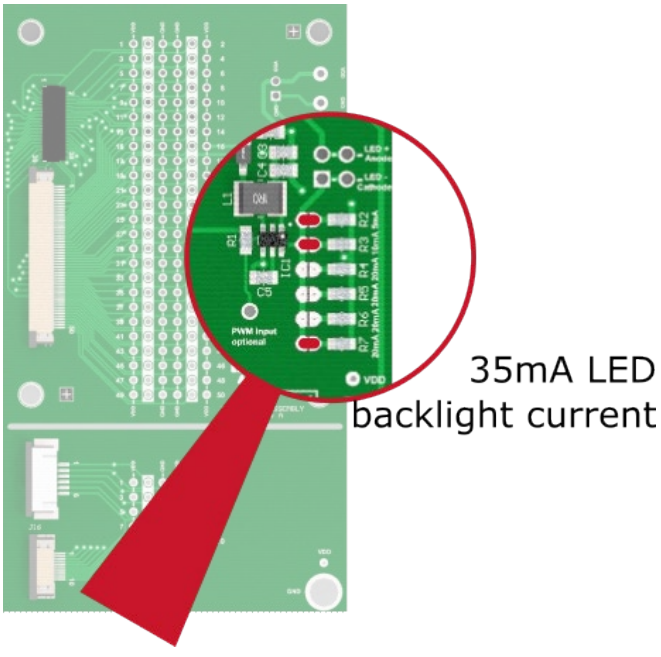
The board consists of two sections. The top section is the display interface, including a LED-backlight driver. The bottom section has FPC-connectors with up to 10 positions for interfacing a potential touch panel. It can be removed from the other part to mechanically fit a wide range of display sizes.



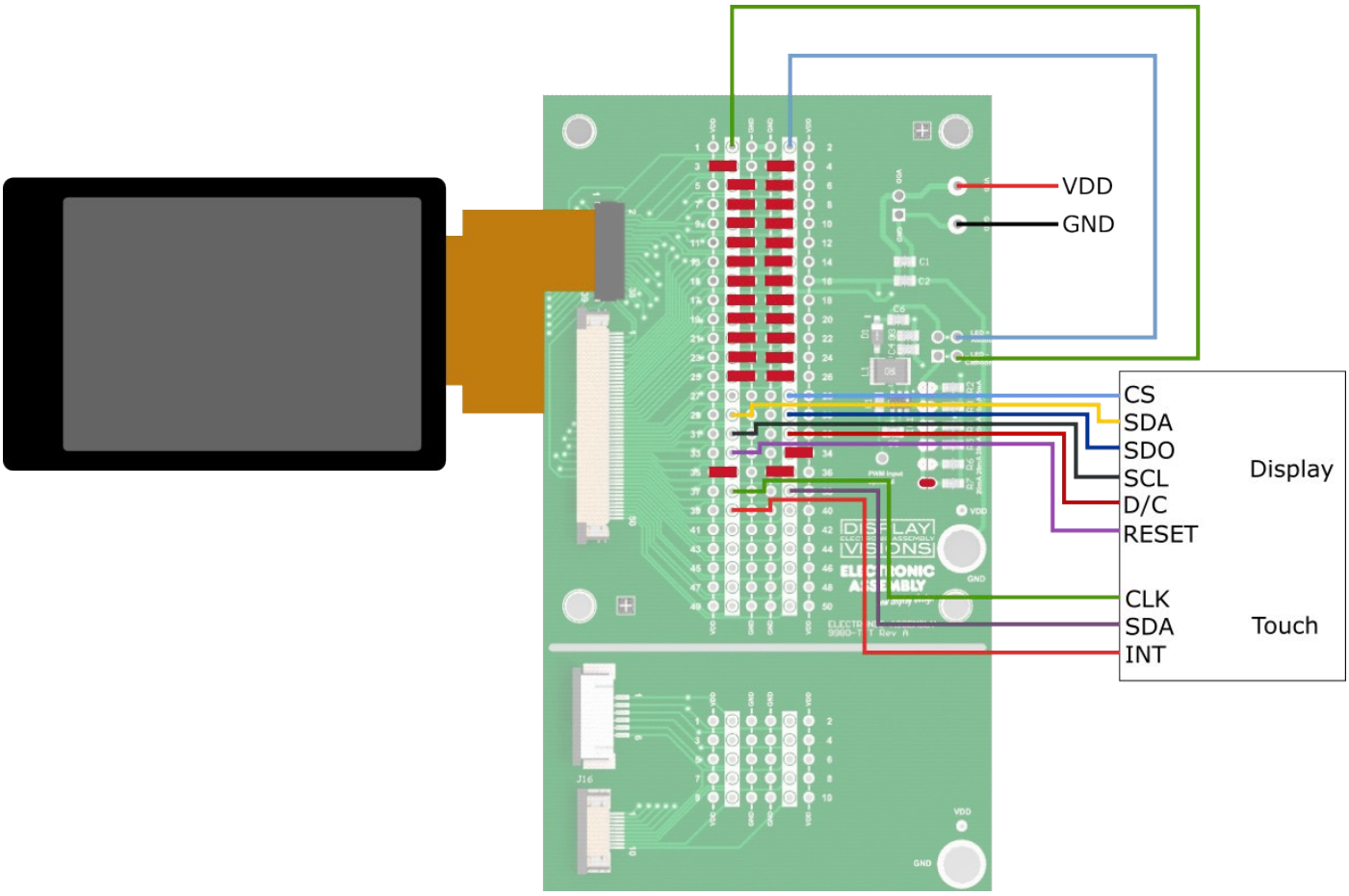
Generally, the board can be used with every EA TFT Display. Please see the list for suiting products.

Ordering Code	Size	Display	Touch
EA TFT020-23AINN	2.0“	J5	-
EA TFT020-23AITC			J5
EA TFT028-23AINN	2.8“		-
EA TFT028-23AITC			J5
EA TFT035-34AINN	3.5“		-
EA TFT035-34AITC			J5
EA TFT035-32AINN		J4	-
EA TFT035-32ATS			J10
EA R480X-43ALW	4.3“		-
EA TFT043-42BITC			J4
EA TFT043-42ANN			-
EA TFT043-42ATS			J10
EA W800X-50AILW	5.0“		-
EA TFT050-84ANN			-
EA TFT050-84BTS			J10
EA TFT052-41ATS	5.2“		-
EA TFT052-41ATS			J10
EA TFT057-32ANN	5.7“		-
EA TFT057-32ATS			J10
EA R1024X-70BLW	7.0“		-
EA R1024X-70BLWTS			J9
EA TFT070-84ANN			-
EA TFT070-84ATS			J10
EA W1280X-101ALW	10.1“		-

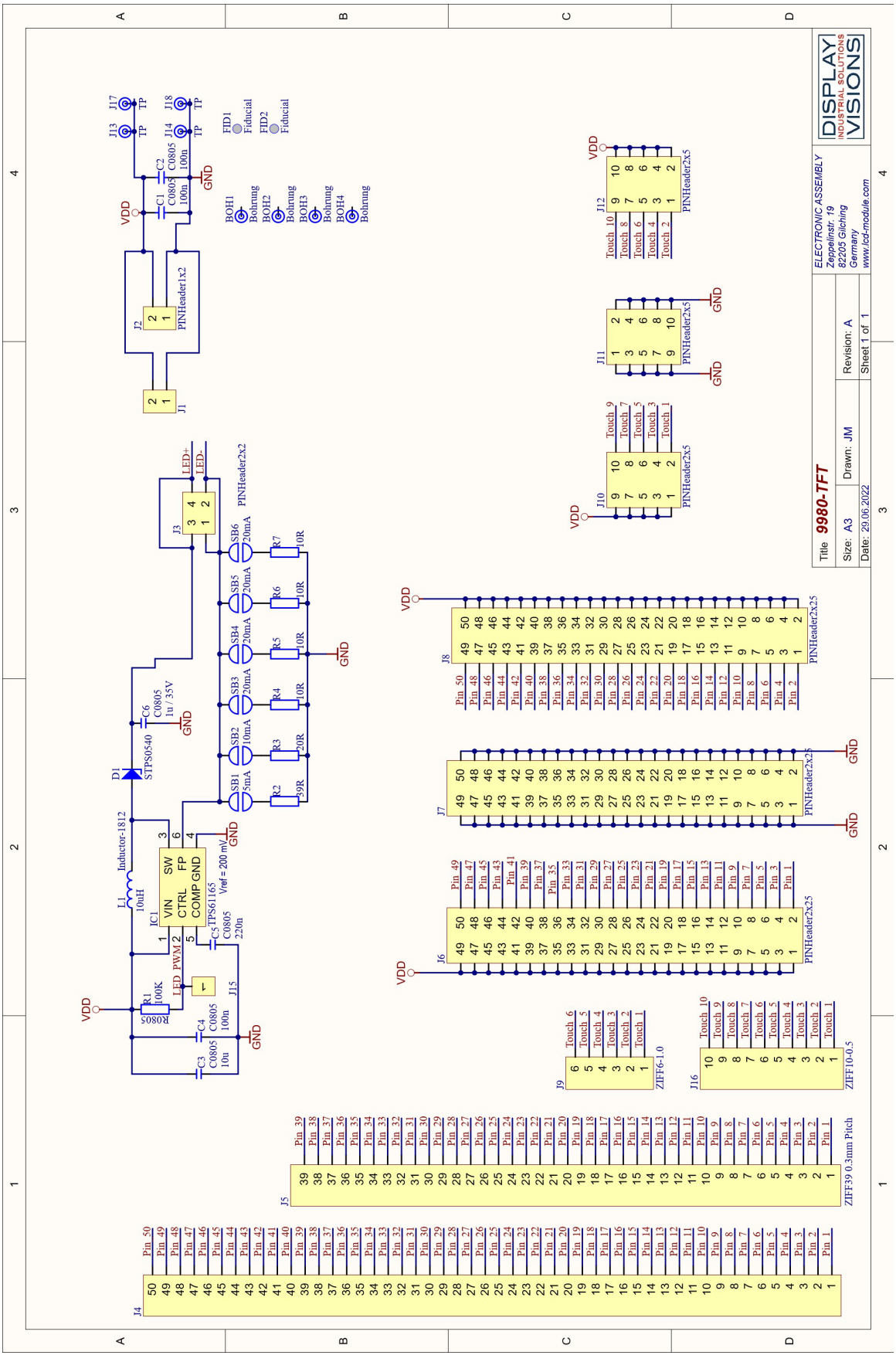
The LED-Driver is connected to VDD and GND. There are 6 solder bridges to set the LED current according to the connected display. The next picture shows as an example the setting for 35 mA.



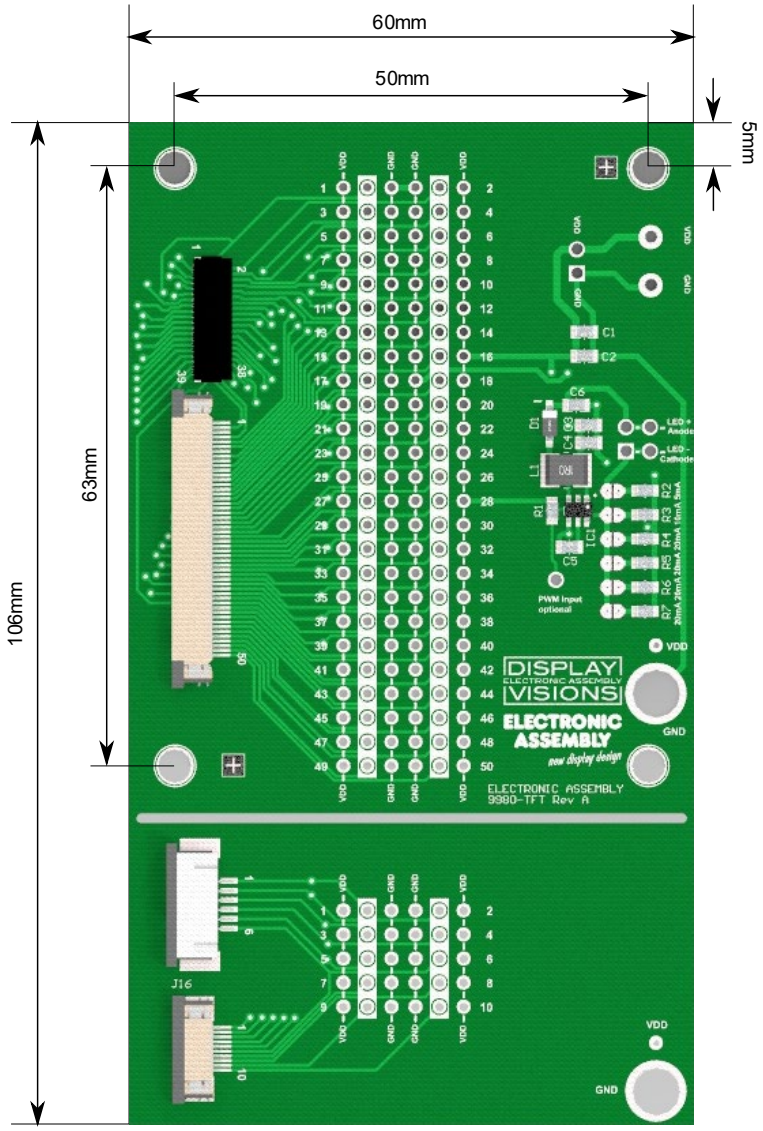
As an example, the wiring diagram for the EA TFT020-AITC using SPI is as follows. Most of the pins are not used and need to be set to GND. Only some Jumpers are needed.



SCHEMATIC


Title 9980-TFT
Size: A3
Drawn: JM
Revision: A
Date: 29.06.2022
Sheet 1 of 1
ELECTRONIC ASSEMBLY
Zeppelinstr. 19
82205 Gilching
Germany
www.lcd-module.com
DISPLAY INDUSTRIAL SOLUTIONS VISIONS
IC1 TPS61165
L1 10uH Inductor-1812
D1 STPS0540
SB1 5mA
SB2 10mA
SB3 20mA
SB4 20mA
SB5 20mA
SB6 20mA
R1 100K
R2 59R
R3 20R
R4 10R
R5 10R
R6 10R
R7 10R
C1 C0805 100n
C2 C0805 100n
C3 C0805 10u
C4 C0805 100n
C5 C0805 220n
C6 C0805 1u / 35V
Vref = 200 mV
J1 J2 PINHeader1x2
J3 PINHeader2x2
J4 J5 ZIFF39 0.3mm Pitch
J6 J7 J8 PINHeader2x25
J9 ZIFF6-1.0
J10 J11 J12 PINHeader2x5
J16 ZIFF10-0.5
FID1 FID2 Fiducial
BOH1 BOH2 BOH3 BOH4 Bohrung
VDD
GND

DIMENSION


60mm
50mm
5mm
63mm
106mm
DISPLAY
ELECTRONIC ASSEMBLY
VISIONS
ELECTRONIC
ASSEMBLY
new display design
ELECTRONIC ASSEMBLY
9980-TFT Rev A
PWM Input
optional
VDD
GND
J16