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Legend

General comment such as function title, configuration, ...

Text to be added to silkscreen.

Warning text.

*Notes to generate the board layout.

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PSRAM Data, NWE & NOE shared with LCD

Impedance Constraint [Min = 40.00  Max = 60.00 ]
Matched Net Lengths [Tolerance = 5mm]

placements close to PSRAM
Exposed central pad should not be connected to any voltage on PCB

Optional PU and PD to set PB2 when use in BOOT1 alternate function

Matched Net Lengths [Tolerance = 5mm]
21mm distance between a pair of microphones

21mm distance between a pair of microphones
Backlight control: ON/OFF or dimmer by low frequency (1 to 10kHz typ.)

PWM using TIM9_CH1

VDD_MCU operating voltage range: 3V0 to 3V6

SB41 closed and SB42 opened = IM low: LCD in 8bits mode

SB41 open and SB42 closed = IM high: LCD in 16bits mode

Capacitive Touch Panel

LCD RST and CTP RST share the same P10 for RST. Active LOW

To support CTP pin A
- CN5/PIN should be connected to GND
- CN6/PIN should be connected to IOVCC

Touch panel driver & FPC connector for LCD panel

10uF

100nF

100K

4.7uH 1A 180R

100nF

LED backlight

FRIDA LCD

FRD154BP2902-D-CTQ

240x240 pixel TFT LCD

FPC

CN16

X

Y

LCD FRD154BP2902-D-CTQ

Fitted: NO

Solder: YES

Size:

Revision:

Variant:

Project:

Title:

Date:

Sheet:

Reference:
USB_OTG_FS

USB Full Speed operating range voltage: 3.0V<VDD_USB<3.6V

ESD PROTECTION SHOULD BE CLOSE TO THE CONNECTOR
ARDUINO UNO connector

WARNING voltage applied to VIN >11.5V

DAC1_OUT available)

DAC2_OUT available)
Connect only one jumper to supply the DISCO from one of the external 5V. If the DK board is connected to an external 220/5V USB Charger, use jumper on pin 7/8.

5V_PWR_SELECTION_FROM_EXTERNAL_SOURCES

5V_PWR_FROM.ARDUINO (VIN < 11.5V)

Output: 5V / Up to 800mA
From Arduino power pin VIN

3V3_PWR

Output: 3V3 / Up to 800mA
Open solder bridge if Discovery is supplied from +3V3 of extension connector

GND_PROBE