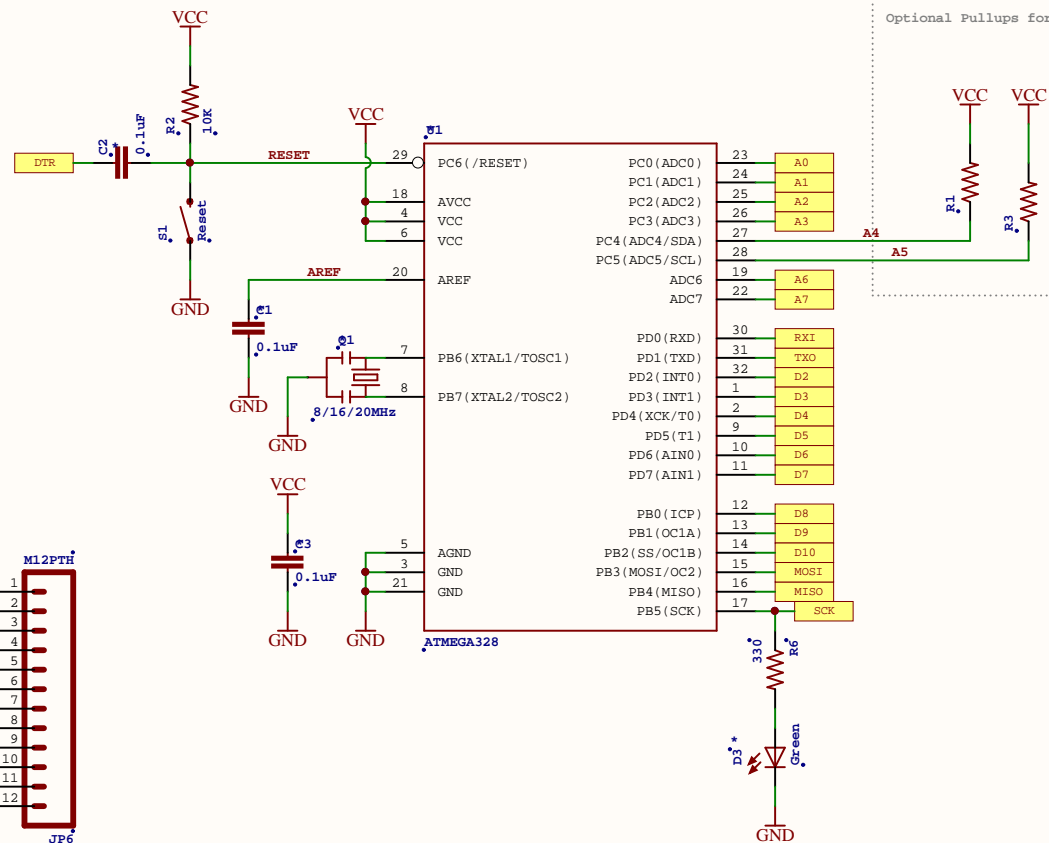
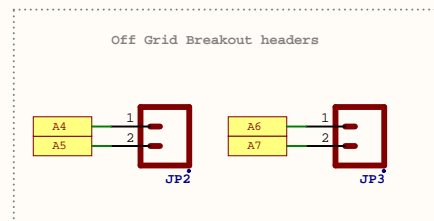
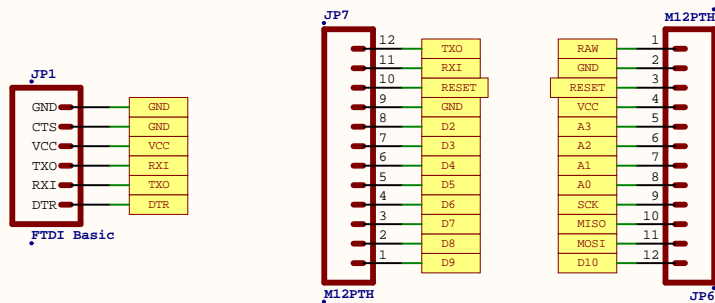


Board is marked with combination of resonator frequency and regulator voltage.



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TITLE: Arduino-Pro-Mini		SFE
Design by: Original Arduino Mini Design by Team Arduino Arduino Pro Mini Design by Spark Fun Electronics		REV: 14
Date: 2017-12-12 8:04:58 AM	Sheet: 1	

# Bill of Materials

Bill of Materials For Project [Arduino-Pro-Mini.PrjPcb] (No PCB Document Selected)

Source Data From: Arduino-Pro-Mini.PrjPcb  
Project: Arduino-Pro-Mini.PrjPcb  
Variant: None

Creation Date: 2018-06-15 8:27:46 AM  
Print Date: 15-Jun-18 8:28:42 AM

Footprint	Comment	LibRef	Designator	Description	Quantity
0603-CAP	0.1uF	CAP0603-CAP	C1, C2, C3, C10	CapacitorStandard 0603 ceramic capacitor, and 0.1" leaded capacitor.	4
EIA3216	10uF	CAP_POL1206	C13, C19	Capacitor PolarizedThese are standard SMD and PTH capacitors. Normally 10uF, 47uF, and 100uF in electrolytic and tantalum varieties. Always verify the external diameter of the through hole cap, it varies with capacity, voltage, and manufacturer. The EIA devices should be standard.	2
0603-LED-ALT1	Green	LED	D3	LEDsStandard schematic elements and footprints for 5mm, 3mm, 1206, and 0603 sized LEDs. 5mm - Spark Fun Electronics SKU : COM-00529 (and others)	1
1X06	FTDI Basic	ARDUINO_SERI AL_PROGRAM PTH	JP1		1
1X02	M02PTH	M02PTH	JP2, JP3	Header 2Standard 2-pin 0.1" header. Use with straight break away headers (SKU : PRT-00116), right angle break away headers (PRT-00553), swiss pins (PRT-00743), machine pins (PRT-00117), and female headers (PRT-00115). Molex polarized connector foot print use with SKU : PRT-08233 with associated crimp pins and housings.	2
MICRO-FIDUCIAL	FIDUCIALUFIDU CIAL	FIDUCIALUFIDU CIAL	JPS, JP8	Fiducial Alignment PointsVarious fiducial points for machine vision alignment.	2
1X12	M12PTH	M12PTH	JP6, JP7	Header 12Standard 12-pin 0.1" header. Use with straight break away headers (SKU : PRT-00116), right angle break away headers (PRT-00553), swiss pins (PRT-00743), machine pins (PRT-00117), and female headers (PRT-00115).	2
0603-LED-ALT1	Red	LED	LED1	LEDsStandard schematic elements and footprints for 5mm, 3mm, 1206, and 0603 sized LEDs. 5mm - Spark Fun Electronics SKU : COM-00529 (and others)	1
RESONATOR-SMD-1:1	8/16/20MHz	RESONATOR1:1	Q1	ResonatorSmall SMD resonator. This is the itty bitty 10/20MHz resonators with built in caps. CSTICE10MG55 and CSTICE20MOV53. Footprint for SMD has been used in SFE production for years, and does work okay. 1:1 is an attempt to get larger fillets on the sides so it will be easier to inspect these solders in our AOI machine. The pads have been minimized to match the actual metal under the resonator. To see this relation, it includes an image import of the bottom side of the component. Imported to scale on layer 200.	1
0603-RES	RESISTOR0603-RES	RESISTOR0603-RES	R1, R3	ResistorBasic schematic elements and footprints for 0603, 1206, and PTH resistors.	2
0603-RES	10K	RESISTOR0603-RES	R2, R11	ResistorBasic schematic elements and footprints for 0603, 1206, and PTH resistors.	2
0603-RES	330	RESISTOR0603-RES	R6	ResistorBasic schematic elements and footprints for 0603, 1206, and PTH resistors.	1
TACTILE-SWITCH-SMD-ALT01	Reset	SWITCH-MOMENTARY-2SMD-ALT01	S1	Various NO switches: pushbuttons, reed, etc	1
SJ_2S	SOLDERJUMPERNC	SOLDERJUMPERNC	SJ1	Solder JumperStandard SMD solder jumper. Used to automate production. Two variants : Normally Open and Normally Closed are the same, but have different paste layers. NC will have a large amount of paste and should jumper during reflow.	1
TQFP32-08 SOT23-5	ATMEGA328 MIC5205	ATMEGA168 V_REG_LDOS MD	U1		1
			U2	Voltage Regulator LDOSstandard 150mA LDO voltage regulator in SOT-23 layout. Micrel part MIC5205. BP (by-pass) pin is used to lower output noise with 470pF cap.	1
SFE-LOGO-FLAME	LOGO-SFESK	LOGO-SFESK	US1	Spark Fun Electronics PCB LogoThis is the standard Spark Fun Electronics PCB logo.	1
OSHW-LOGO-S	OSHW-LOGOS	OSHW-LOGOS	US3	Open Source Hardware Logo This logo indicates the piece of hardware it is found on incorporates a OSHW license and/or adheres to the definition of open source hardware found here: <a href="http://freedomdefined.org/OSHW">http://freedomdefined.org/OSHW</a>	1
SFE-NEW-WEBLOGO	LOGO-SFENEW	LOGO-SFENEW	US11	Spark Fun Electronics PCB LogoThis is the standard Spark Fun Electronics PCB logo.	1
Approved Notes					28