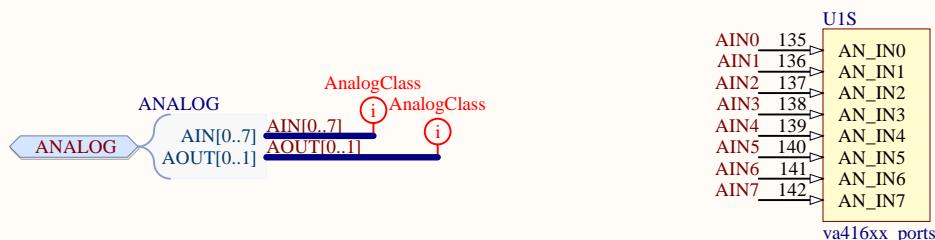
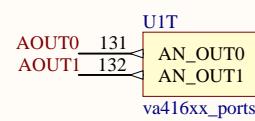


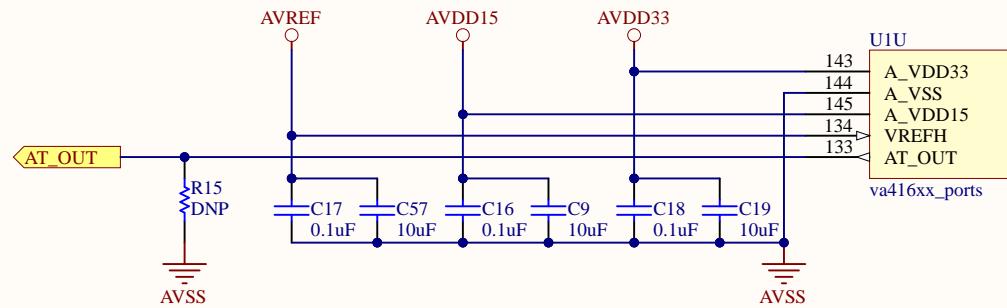
A



B



A



C

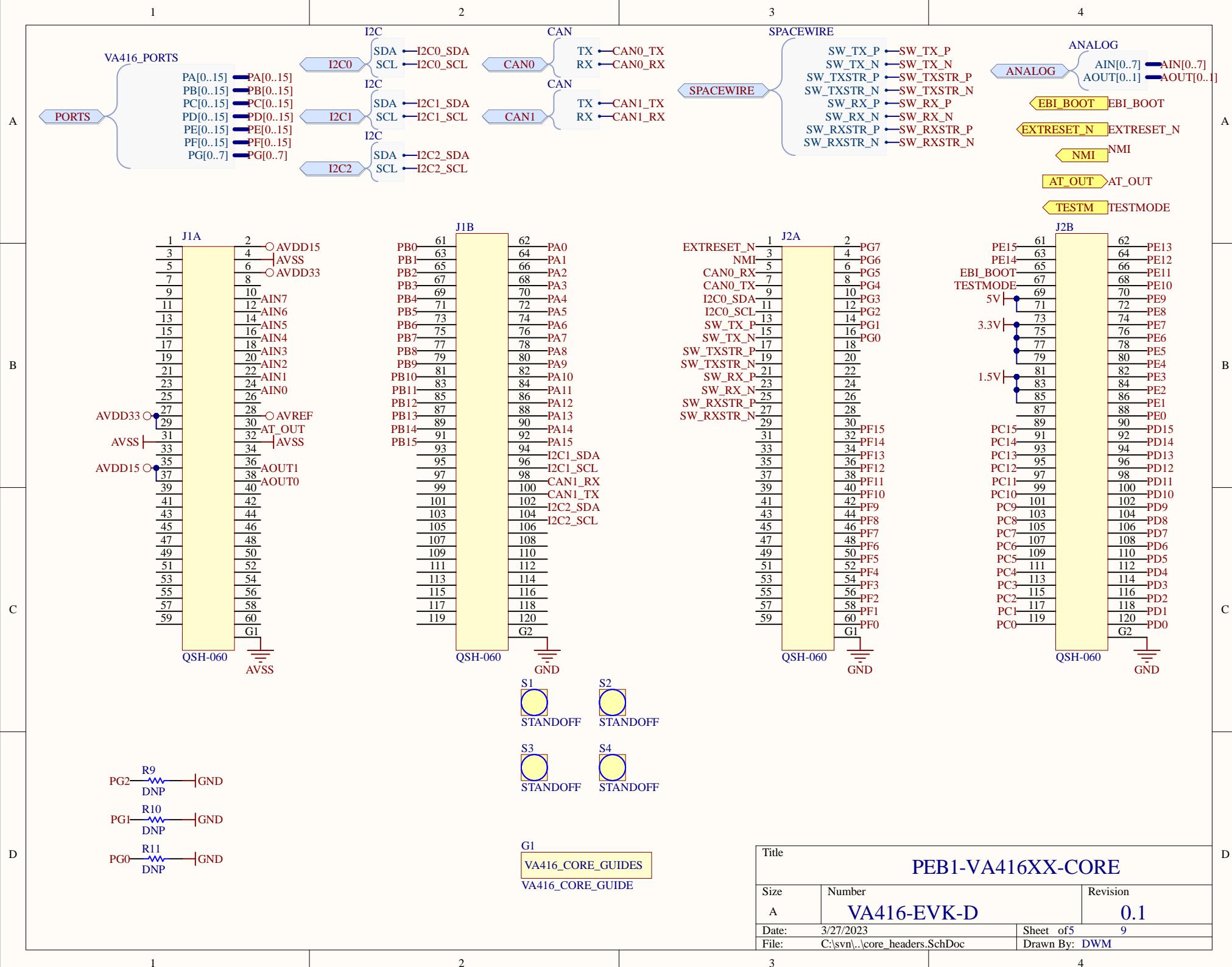
B

D

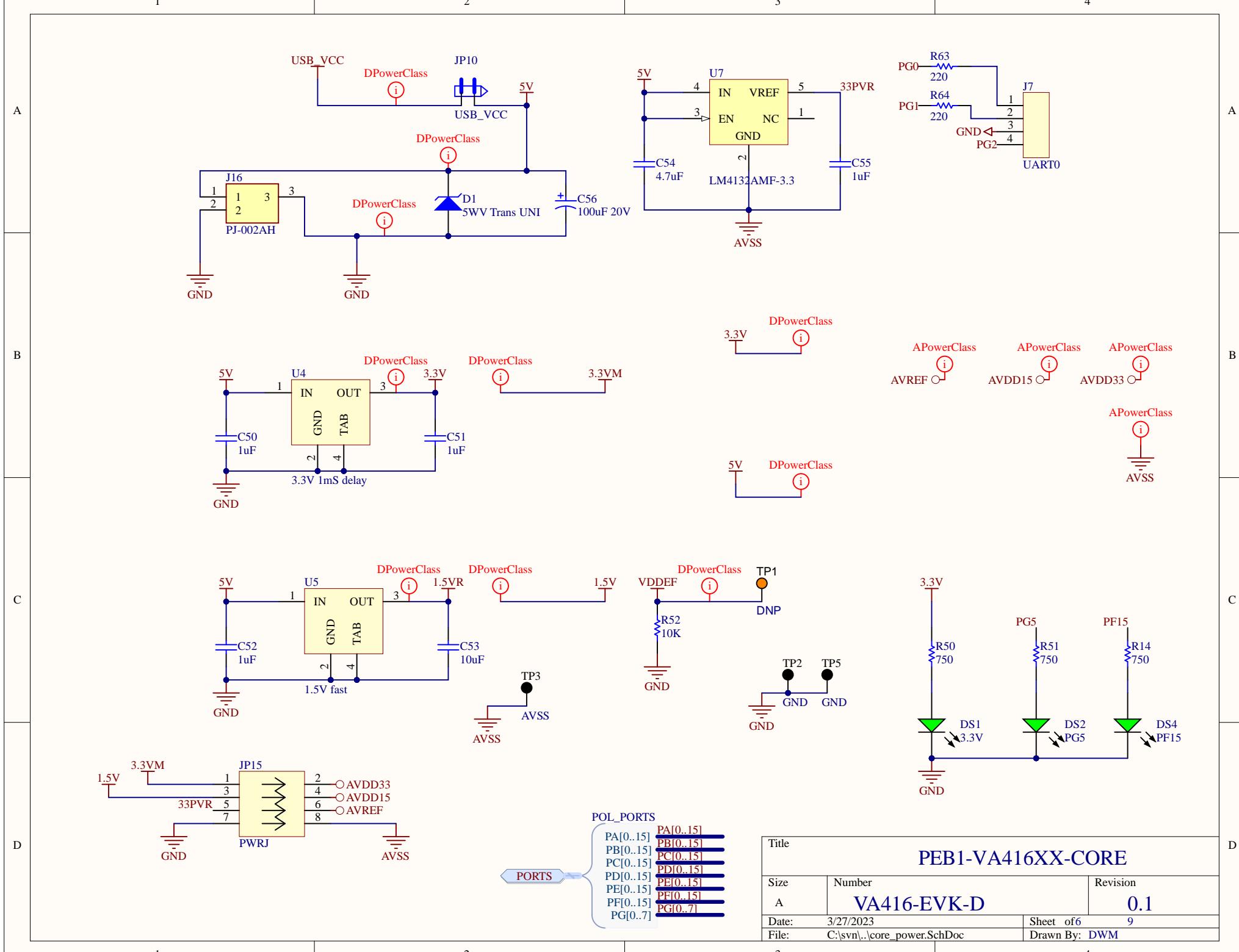
C

D

Title		
Size	Number	Revision
A	<b>VA416-EVK-D</b>	0.1
Date:	3/27/2023	Sheet of 4 9
File:	C:\svn\..\va416_analog.SchDoc	Drawn By: DWM

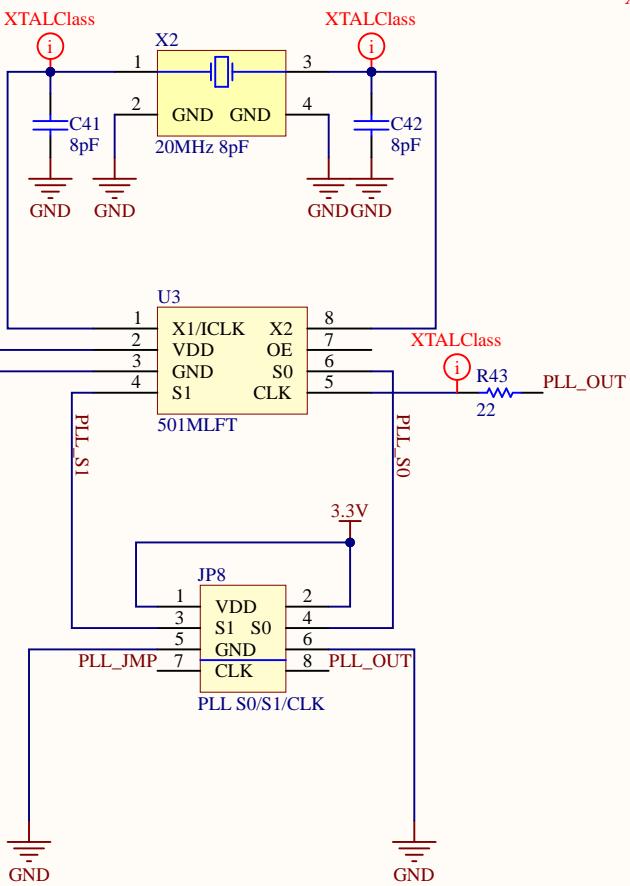


1 2 3 4



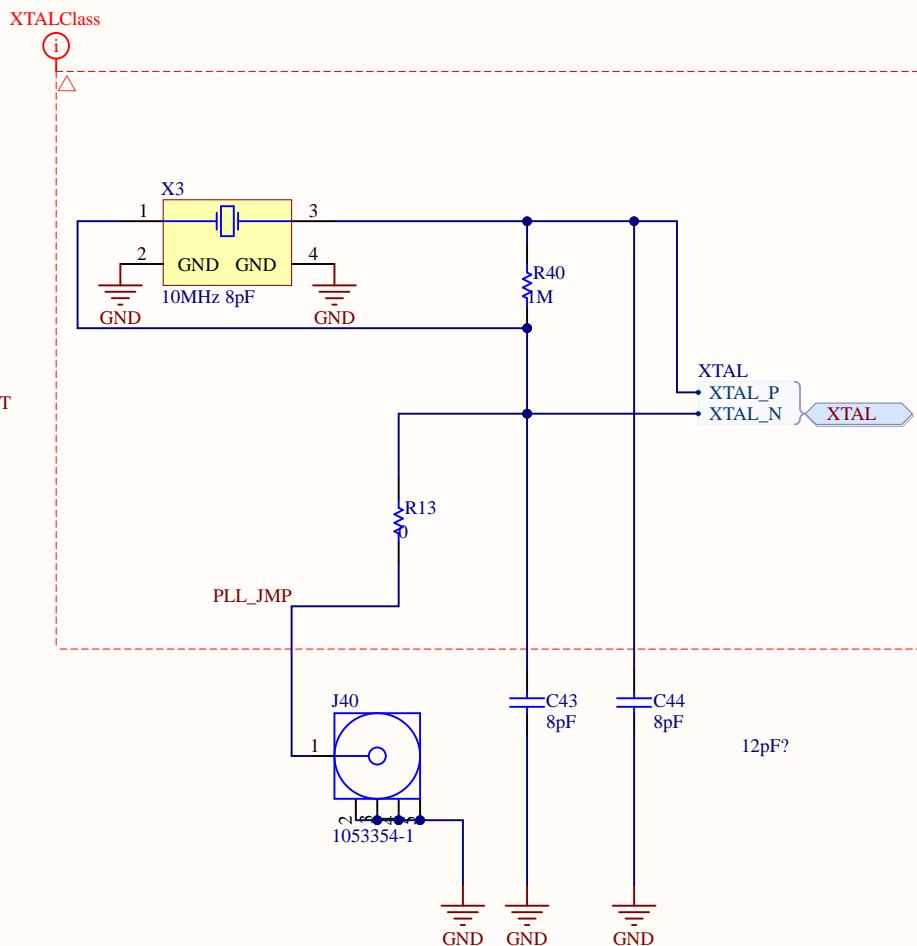
A

A



B

B



C

C

Title

PEB1-VA416XX-CORE

Size

A

Number

VA416-EVK-D

Revision

0.1

Date:

3/27/2023

Sheet

of

9

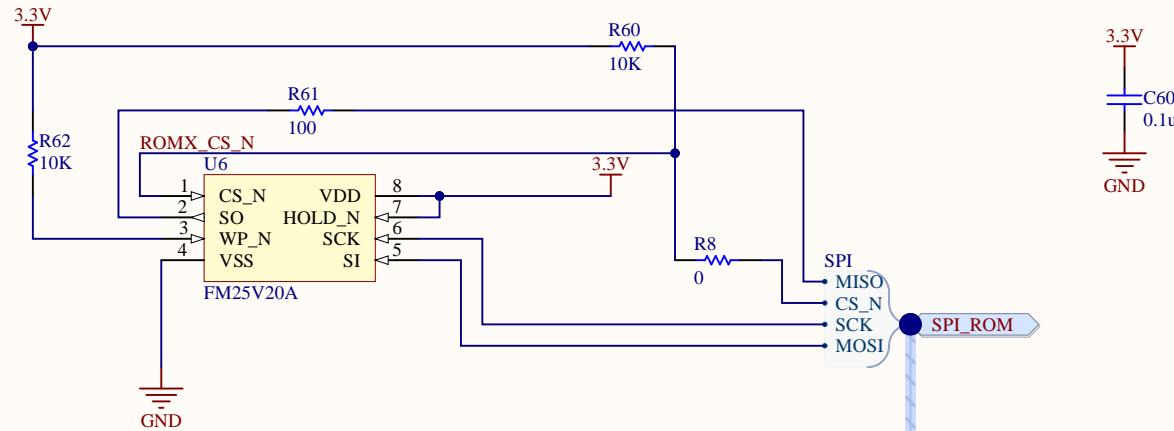
File:

C:\svn..\core\_pll.SchDoc

Drawn By:

DWM

A



B

B

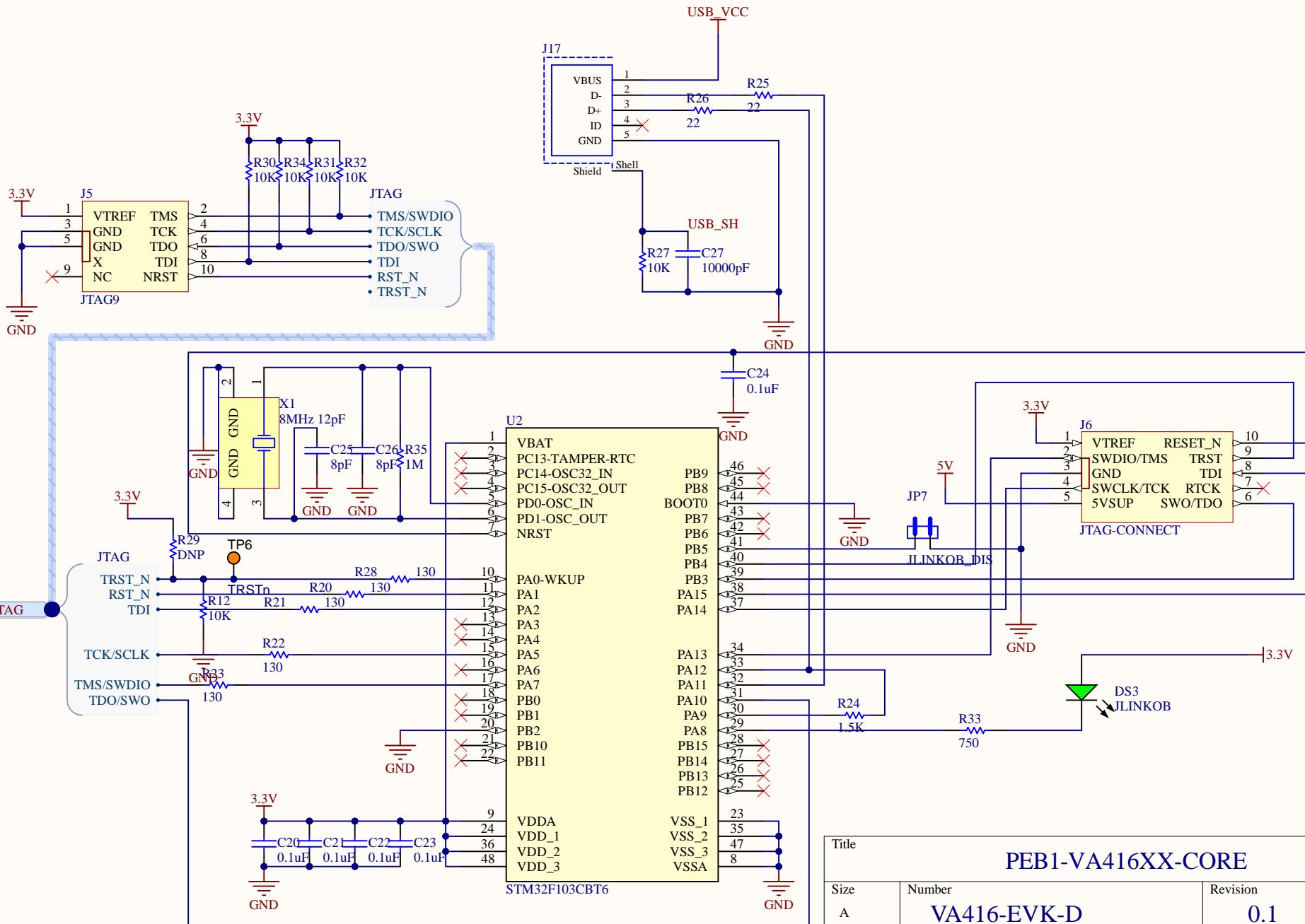
C

C

D

D

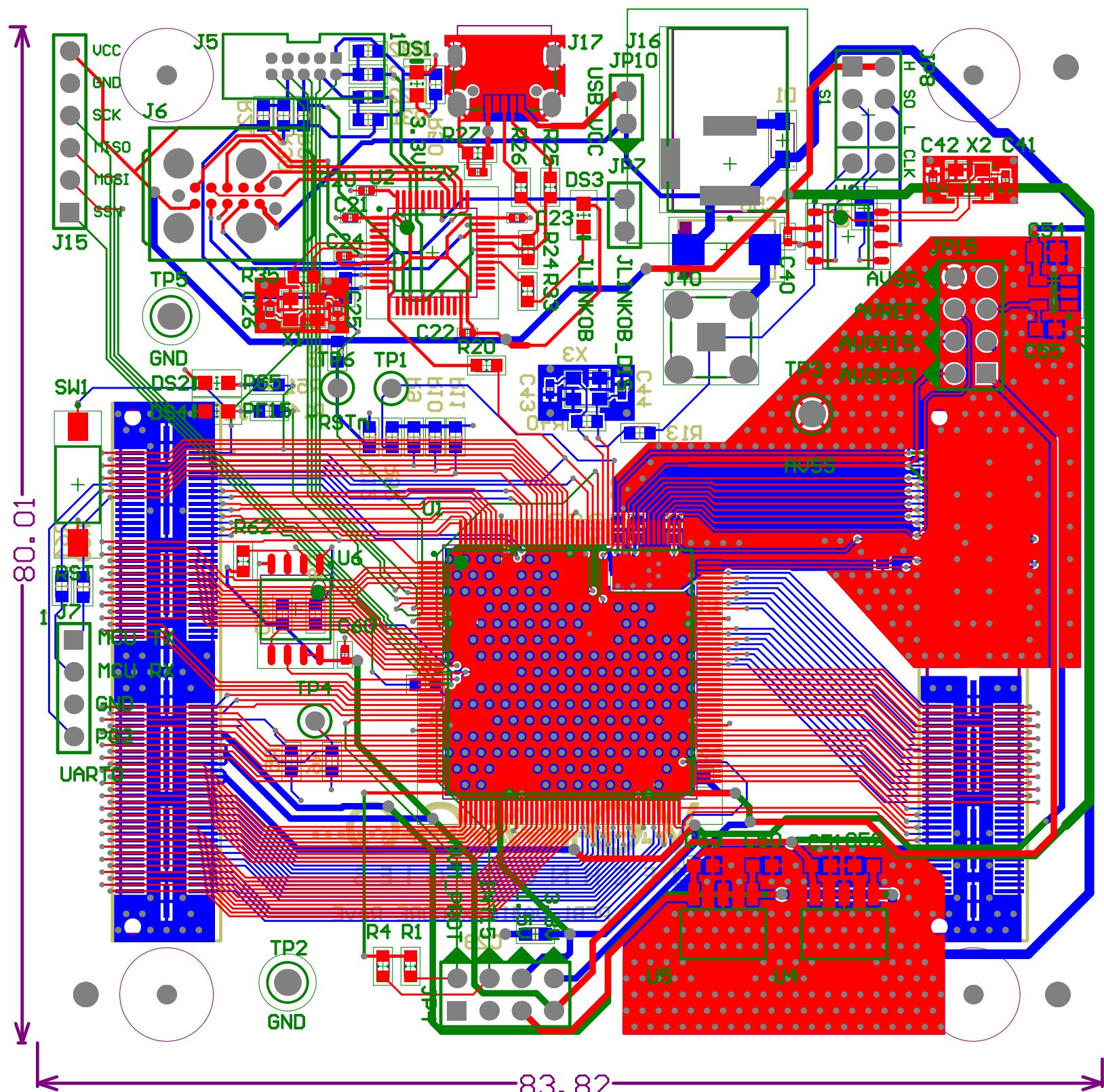
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Size	Number	Revision
A	<b>VA416-EVK-D</b>	0.1
Date:	3/27/2023	Sheet of 8 9
File:	C:\svn..\core_fram.SchDoc	Drawn By: DWM



Tip

PEB1-VA416XX-CORE

Size	Number	Revision
A	<b>VA416-EVK-D</b>	<b>0.1</b>
Date:	3/27/2023	Sheet of 9 9
File:	C:\svn..\core_jtag_ob.SchDoc	Drawn By: DWM



Comment	FootprintDescription	Description	Designator	Footprint	LibRef	Quantity
0.1uF		C1, C2, C3, C4, C5, C6, C7, C8, C10, C11, C12, C13, C14, C16, C17, C18, C20, C21, C22, C23, C24		CAPC0402(1005)60_L	CAP	21
10uF		C9, C19, C57		CAPC0603(1608)100_L	CAP	3
0.1uF		C15, C40, C60		CAPC0402(1005)60_N	CAP	3
8pF		C25, C26		CAPC0402(1005)60_L	CAP	2
10000pF		C27		CAPC0402(1005)60_N	CAP	1
10uF		C28, C29, C53		CAPC0603(1608)100_N	CAP	3
8pF		C41, C42, C43, C44		CAPC0402(1005)60_N	CAP	4
1uF		C50, C51, C52, C55		CAPC0603(1608)100_N	CAP	4
4.7uF		C54		CAPC0805(2012)100_N	CAP	1
100uF 20V	TPSD107M016T0080V	C56		CAPP2917D_N	CAP_P	1
5WV Trans UNI	SMF5V0TTFR	D1		SOD123f-M	ZENER	1
3.3V		DS1		LEDGREEN0603_M	LED-green	1
PG5		DS2		LEDGREEN0603_M	LED-green	1
JLINKOB		DS3		LEDGREEN0603_M	LED-green	1
PF15		DS4		LEDGREEN0603_M	LED-green	1
OSH-060		J1, J2		OSH-060-01-X-D-A	OSH-060	2
JTAG9		J5		JTAG-9_SAMTEC_0.05	JTAG9	1
UART0		J7	Header_1x4	Header 1x4		1
PJ-002AH	Integrated Circuit	J16	PJ002AH-OVAL	PJ-002AH		1
629105150521	Micro USB 2.0 Type B Receptacle WR-COM, Horizontal, SMT, with Pegs, High Current at Pin 1 & Pin 5	J17	629105150521		CMP-1502-03252-1	1
JmpDir_2x4		JP4	JMPDIR_2x4	JmpDir_2x4		1
JLINKOB_DIS		JP7	JMP2	Jumper_2p		1
PLL S0/S1/CLK		JP8	PLL S0/S1/CLK	PLL S0/S1/CLK		1
USB_VCC		JP10	JMP_DIR	Jumper_2p		1
PWRJ		JP15	JMPDIR_2x4	JmpDir_2x4		1
10K		R1, R2, R3, R4, R5, R6, R7, R12, R27, R30, R31, R32, R34, R52, R60, R62	RESC0603(1608)_N	RESISTOR		16
0		R8, R13	RESC0603(1608)_N	RESISTOR		2
750		R14, R33, R50, R51	RESC0603(1608)_N	RESISTOR		4
130		R20, R21, R22, R23, R28	RESC0603(1608)_N	RESISTOR		5
1.5K		R24	RESC0603(1608)_N	RESISTOR		1
22		R25, R26	RESC0603(1608)_N	RESISTOR		2
1M		R35, R40	RESC0603(1608)_N	RESISTOR		2
22		R43	RESC0805(2012)_N	RESISTOR		1
100		R61	RESC0603(1608)_N	RESISTOR		1
220		R63, R64	RESC0603(1608)_N	RESISTOR		2
RST	FSMSM Push Button Switch, 50 mA, -35 to 85 degC, 2-Pin SMD, RoHS, Tape and Reel	SW1	TECO-FSMSMTR_V	CMP-2000-07501-1		1
GND	Test Point, Black, Through Hole, RoHS, Bulk	TP2, TP5	KSTN-5011_V	CMP-1672-00003-4		2
AVSS	Test Point, Black, Through Hole, RoHS, Bulk	TP3	KSTN-5011_V	CMP-1672-00003-4		1
va416xx_ports		U1	PQFP176_M_6-5mil-Hand	va416xx_ports		1
STM32F103CBT6	Imported	U2	QFP-48_N	STM32F103CBT6		1
501MLFT		U3	SOIC8_150_L	501MLFT		1
3.3V 1mS delay		U4	SOT23-4_N	MCP1703T-3302E/DB		1
1.5V fast		U5	SOT23-4_N	MIC37100-1.5WS		1
FM25V20A		U6	MAXM-W8+2_N	FM25V20A		1
LM4132AMF-3.3	Precision Low Dropout Voltage Reference, 5-pin SOT-23	U7	MF05A_M	CMP-0074-00541-2		1
8MHz 12pF	ECS-80-12-33-IGN-TR	X1	XTAL_3.2x2.5	ECS-80-12-33-JGN-TR		1
20MHz 8pF	ABM8AIG-20.000MHz-8-T	X2	XTAL_3.2x2.5	ECS-80-12-33-JGN-TR		1
10MHz 8pF	ECS-100-8-33-AGM-TR	X3	XTAL_3.2x2.5	ECS-80-12-33-JGN-TR		1