

Source: P42-VGA_ver2.sch
 Date: 24/01/2021 9:11:20 AM
 Tool: Eeschema (5.1.7)-1
 Parts Total: 67

Collated Components:

Item	Qty	Reference(s)	Value	BOM Description	Mfr1	Mfr1PN	Note
1	11	C1, C4, C5, C6, C7, C10, C11, C12, C13, C14, C15	100nF	Cap, 100nF, +-10%, X7R, 0603			
2	2	C2, C3	30pF	Cap Cer, 30pF, +-10%, NP0, 0603			
3	2	C8, C9	10uF	Cap, 10uF, 16V, +-10%, X7R, 0603			
4	6	D1, D2, D3, D4, D5, D6	CG0603MLA	Diode TVS 8V 30A 0603	Bourns	CG0603MLA-5.5ME	
5	1	J1	VGA	Conn, DSUB HD, RCPT, 15POS, R/A, TH	Assmann	AHDF15A-KG-TAXB	
6	1	J2	ICSP	Conn, Header Female, 3x2pin, SMD	Sullins	NPTC032KFMS-RC	
7	1	J3	Video0	Conn, RCA, TH	CUI	RCJ-014	
8	13	R1, R2, R3, R4, R5, R6, R13, R14, R15, R17, R23, R24, R26	22R0	Res, 22R0, 1%, 0.1W, 0603			
9	1	R7	1 MEG	Res, 1MEG, 1%, 0.1W, 0603			
10	6	R8, R9, R10, R11, R19, R21	10K0	Res, 10K0, 1%, 0.1W, 0603			
11	7	R12, R16, R18, R25, R29, R30, R31	0R	Res, 0R0, 1A, 0603			
12	2	R20, R27	1K6	Res, 1K6, 1%, 0.1W, 0603			
13	1	R22	2K2	Res, 2K2, 1%, 0.1W, 0603			
14	1	R28	1K	Res, 1K0, 1%, 0.1W, 0603			
15	1	SH1	Adafruit_FeatherWing	Conn, Header Female, FeatherWing16 + 12pin, TH			
16	1	SH2	ARDUINO_as_UNO	Conn, Header Arduino Uno, 10 + 2x8 +6 pin, TH			
17	1	U1	VS23S040D	IC, Video Display Controller, 4 output, 4 MBit, BGA-24	VLSI	VS23S040D-B	
18	1	U2	AT24CS64-SSHM	IC, EEPROM, I2C, 64 KBit, SOIC-8			
19	1	U3	AT25_EEPROM	IC, Flash, SPI, 16 MBit, SOIC-8	Adesto	AT25SF161-SSHD-T	
20	1	U4	TXS0108	IC, 8x Line Driver, Bidir, TSSOP-20	TI	TXB0108EPW	
21	1	U5	NCP1117ST33	IC, Voltage Regulator, Linear, 3.3V, 1A, SOT-223	ON Semi	NCP1117ST33T3G	
22	3	U6, U7, U9	FIN1002	IC, Receiver, LVDS, SOT23-5	Fairchild	FIN1002M5X	
23	1	U8	74LVC2G08	IC, Logic Gate, 2-in AND, 1.8 - 5.5V, SSOP-8	TI	SN74LVC2G08DCU	
24	1	Y1	XTAL	CRYSTAL 3.579545MHZ 18PF NTSC HC-49-SMD	Abracon	ABLS-3.579545MHZ-D-4-T	NTSC
				CRYSTAL 4.433619MHZ 18PF PAL HC49-SMD	Abracon	ABLS-4.433619MHZ-B4-T	PAL