

65F02 Parts List

Rev D, 2020-11-22

Mouser prices in EUR

Part	Quantity	Value	Further Specs	Package	Manufacturer	Part number	Comments
C1 - C2	2	100µF 6.3V	X5R or X7R	C1206	Taiyo Yuden	JMK316ABJ107ML-T	
C3	1	10µF 6.3V	X5R or X7R	C0805	Kemet	C0805C106K9PACTU	
C10 - C18	9	4.7µF 6.3V	X5R or X7R	C0603	Taiyo Yuden	JMK107BJ475KA-T	alternative: Samsung CL10A475KQ8NNNC
C20 - C26	7	470nF 6.3V	X5R or X7R	C0603	Taiyo Yuden	JMK107B7474KA-T	alternative: Tayo Yuden JMK107BJ474KA-T
C30 - C38	9	100nF 6.3V	X5R or X7R	C0603	Kemet	C0603C104K9RACTU	alternative: AVX 06036C104JAT2A alternative Taiyo Yuden NRS6014T100MMGG! 1.4mm high. Or Bourns SRN4018TA-100M (4*4 mm ²)
L1	1	10µH	6*6 mm ²		Sumida	CDRH5D18NP-100NC	
R1 - R3	3	4k7	R-EU_R0603	R0603	Yageo	RC0603JR-074K7L	
R4	1	10k	R-EU_R0603	R0603	Yageo	RC0603JR-0710KL	
R5, R6	2	39	R-EU_R0603	R0603	Yageo	RC0603JR-0739RL	
R7	1	1k5	R-EU_R0603	R0603	Yageo	RC0603JR-071K5L	
LD1	1	LED 2mA	orange, Vf = 1.8V	1206	Kingbright	APT3216LSECK/J4-PRV	
U1	1	Spartan 6 FPGA LX9	6SLX9CSG225-3	CS225	Xilinx	XC6SLX9-3CSG225C	note -3 speed grade!
U2 - U5	4	74HCT245BQ	74HCT245BQ	DHVQFN20	Nexperia	74HCT245BQ,115	
U6, U7	2	74LVC245ABQ	74LVC245ABQ	DHVQFN20	Nexperia	74LVC245ABQ,115	
U8	1	AT25SF081-SSHD-x	AT25SF081-SSHD	8S1, JEDEC SOIC-8	Adesto	AT25SF081-SSHD-B	has security registers for TinyFPGA bootloader.
U9	1	TLV76033DBZR	3.3V linear, or -DBZT	SOT23	TI	TLV76033DBZR	
U10	1	TPS62207DBVR	1.2V step-down, or -DBZVT	SOT95P280X145-5N	TI	TPS62207DBVR	
SW1	1	4x DIP switch,	pitch 1.27mm, height 1.6mm		Diptronics	DHN-04F-T-V	alternative: OMRON A6H-4102-P (lower profile, lower cost), Grayhill 97R04ST
U99	40	Pins for DIP-40 socket	diam. ~0.5mm, free length ~ 6mm		MillMax	5435-0-05-15-00-00-03-0	alternative: Flip-Pins, from evilmadscientist.com
JP1	0	PINHD-1X6, 2mm pitch	1X06-2MM	jm-headers	Harwin	M22-2530605	don't populate normally
Y1	1	MEMS oscillator 25 MHz	3.3V supply	3.2 x 2.5 mm ²	SiTime	SIT1602BI-22-33E-25.000000E	