

Parts list for			
HEDGHOG II V04-00			
May 08, 2019			
Qty	Ref Name	Key: Red = Bottom, Blue = Top	Description
1	C56		10 uF, 0805, 16V
23	C1-2, C6, C8, C17, C20-24, C26, C33, C43, C45-46, C49-50, C53-55, C57-59		10 uF, 0805, 6.3V or greater
2	C12-13		180 pF, 0805, C0G
3	C15, C29, C41		47 nF, 0805, C0G
1	C19		47 uF, 0805, 4V or greater
5	C25, C34, C36-37, C44		10 nF, 0805
2	C27, C40		1 pF, 0805, C0G
2	C28, C39		1nF, 0805, C0G
3	C3-5		1 uF, 0805
2	C30, C42		22 nF, 0805, C0G
36	C7, C9-11, C14, C16, C18, C31, C47-48, C51-52, C60-81, C83-84		100 nF, 0805
1	D1		1N4001
1	IC1		Regulator, 1.8V, 300mA, MIC5504-1.8YM5-TR
1	IC10		Regulator, 2.5V, 300mA, MCP1824ST-2502E/DB
1	IC11		Regulator, 3.3V, 500mA, MCP1825S-3302E/DB
1	IC12		Regulator, 5V, 1A, LM7805
1	IC13		Regulator, 1.2V, 300mA, MCP1824ST-1202E/DB
1	IC2		Video Decoder, TVP5150AM1PBS
1	IC3		Flash memory, EPCS16SI8N or IS25LP016D-JNLE-TR,
1	IC4		FPGA, EP4CE6E22C8N
2	IC5, IC7		Analogue Switch, FSA4159P6X
1	IC6		Video Amplifier, THS7314D
2	IC8-9		Modulator, MC44BS373CA
1	JTAG		JTAG Connector, Amphenol 10056844-110ALF, 10 PIN
4	L1-2, L4, L5		1 uH, 100 mA, 0805
1	L3		2.2 uH, 0805
1	LED1		LED 3 mm
2	PL1, PL4		RCA socket - (YELLOW), KYCON KLPX-0848A-2-Y
1	PL2		RCA socket - (RED), KYCON KLPX-0848A-2-R
1	PL3		RCA socket - (WHITE), KYCON KLPX-0848A-2-W
1	PL5		F socket, TE CONNECTIVITY 5-1634540-1
1	PL6		2.1mm power socket, RS PRO 448-382
5	R1, R11-12, R31, R59		2K2 0805
6	R10, R13-16, R46		75R 0805
1	R17		4K7 0805
11	R18-27, R41		5K6, 0805, 0.1%
9	R2, R32, R42, R52, R54-58		10K 0805
1	R28		100K 0805
10	R29-30, R34-40, R53		2K8, 0805, 0.1%
2	R3-4		37R4 0805 (or R3 = 36R, R4 = 39R)
1	R33		100R, 0805
3	R47-48, R50		24R9 0805
6	R5-6, R43-44, R49, R51		2K2 0805
1	R7		5K1 0805
1	R8		56K 0805
1	R9		3K3 0805
4	SW1-3, SW7		Toggle switch 3 position, MULTICOMP 1MS3T2B4M7RE
3	SW4-6		Toggle switch 2 position, MULTICOMP 1MS1T2B4M7RE
1	SW8		HEX Switch, NKK switches FR01KR16H-S
1	SW9		DIP Switch 6 Pole, CTS Electronic Components 210-6MS
1	TR1		BC856A
1	TR2		BC846A
1	VR1		5k, Bourns 3306P
1	VR2		50k, Bourns 3306P
1	X1		Oscillator, 50 MHz, 20 PPM, ABRACON - ASV-50.000MHZ-EJ-T
1	Case		MULTICOMP MCRM2015S,
1	TO220 Heatsink for IC12		Wakefield-Vette 271-AB