

SVT Hit Finder Bill of Materials						Revised 1999-11-12 by WJA			
Reference	Item #	Vendor (*)	Part Number	Pkg Marking	Description	Package	# board	per percent spares	Comment
U109	02	Altera	EPC2-LC20		EPC2	PLCC 20	1	15	
Tz1 Tz2	03	General Instrume	TZORB 9736	9736	5KP5.0A transient suppressor	axial lead	2	15	
TC1-3,5-18	04	3M	#2520-6002		20-pin header	.100" x .100" low-pro	17	15	
U102	05	TI	74AS00	AS00	Quad 2-input NAND	SOIC 14	1	15	
U77	06	Philips	74HCT00D	74HCT00D	Quad 2-input NAND	SO14	1	15	
U70,71,72,100	07	TI	SN74BCT760DW	BCT760	Octal O/C buffer	SOIC 20	4	15	
U79,110	08	Philips	74HCT08	74HCT08D	Quad AND gate	SOIC 14	2	15	
U104,105,106,107	09	Harris	74HCT244	HCT244	Octal buffer	SOIC 20	4	15	
U69	10	DataDelay	DDU7C-400	DDU7C-400	10 tap 400ns delay line	DIP 16	1	15	
U82	11a	Digikey	A463-ND		Socket for 4-pin osc	DIP 8	1	15	
(U82)	11b	Digikey	SE1822-ND		30.000 MHz Oscillator	DIP 8	1	15	
C5-11	12a	Cal-Chip	GMC31X7R225K25NT		2.2 uF 50V capacitor	1206	7	0	equivalent part OK
C12-17	12b	Novacap	1206N470J101N		47 pF 100V capacitor	1206	6	0	equivalent part OK
C3V1-60,62-91,96-125	13a	Cal-Chip	GMC31X7R104J50NT		0.1 uF 50V capacitor	1206	120	0	equivalent part OK
C5V1-60,62-91,124-14	13b	Cal-Chip	GMC31X7R104J50NT		0.1 uF 50V capacitor	1206	107	0	equivalent part OK
C5V148,155,156	13c	Cal-Chip	GMC31X7R104J50NT		0.1 uF 50V capacitor	1206	3	0	equivalent part OK
C3V92-95 C5V92-94,9	14	Digikey	PCT 3106 CT		10 uF 16V electrolytic capacitor	SMD	8	0	equivalent part OK
FP2 FP3	15a	AMP	499141-1		2x5 connector (angled)		2	15	
FP2 FP3 screws	15b		3-56 x 3/8 screw		SS sltd pan head mach screw	3-56 x 3/8	4	0	
FP2 FP3 nuts	15c		3-56 nut		SS nut	3-56	4	0	
P3	16a	ERNI	#64785	064785	110-pin connector		1	0	provided by U of C
P3	16b	ERNI	#64179	064179	125-pin connector		1	0	provided by U of C
FPC1 FPC2	17a	KEL	#8822E-052-171LH	8225	52-pin connector		2	0	provided by U of C
FPC1 FPC2 screws	17b				screw		4	0	exact part TBD
FPC1 FPC2 nuts	17c				nut		4	0	exact part TBD
P1 P2	18a	Harting	#0201 160 2101		160-pin connector		2	0	provided by U of C
P1 P2 screws	18b		3-56 x 3/8 screw		SS sltd pan head mach screw	3-56 x 3/8	4	0	
P1 P2 nuts	18c		3-56 nut		SS nut	3-56	4	0	
P0	19	ERNI	#64784	064784	95-pin connector		1	0	provided by U of C
U59-68	20	Cypress	CY7C4245-10ASC	CY7C4245-10ASC	FIFO	A64 (10x10 TQFP 64	10	15	
U58	21	Intel	DA28F320J5-100	DA28F320J5	StrataFlash FRAM	SSOP 56	1	15	
U46-57	22	National	DS90C031TM	DS90C031TM	quad LVDS driver	M16A (SOP 16)	12	15	
U44,45	23	National	DS90C032TM	DS90C032TM	quad LVDS receiver	M16A (SOP 16)	2	15	
U91,U92	24	Altera	EPF10K30AQC240-1	EPF10K30AQC240-1	FPGA	PQFP 240	2	15	
U30,32-41,84	25	Altera	EPF10K50VBC356-2	EPF10K50VBC356-2	FPGA	BGA 356	12	15	
U101	26	Altera	EPM7512AEQC208-7	EPM7512AEQC208-7	CPLD	PQFP 208	1	15	
F1_3.3V F2_3.3V	28a	AMP	2-331272-6		spring socket		2	15	
F1_5V F2_5V	28b	AMP	2-331272-6		spring socket		2	15	
S2	29	C & K	GDB10	GDB10	10-bit DIP switch	DIP 20	1	15	
U19-28	30	Samsung	KM681002AJ-12	KM681002AJ-12	CMOS SRAM 128Kx8	32-SOJ-400	10	0	provided by U of C
LED1	31a	ELMA	90-1801-2731		LED (R/Y)		1	15	
LED4 LED5	31b	ELMA	90-1801-8231		LED (R/G)		2	15	
LED2 LED3	32	ELMA	90-1882-2781		LED (G/Y/R)		2	15	
U7-18	33	Motorola	MCM69F618CTQ9	MCM69F618CTQ9	BurstRAM 64Kx18	TQFP 100	12	0	provided by U of C
U80,81	34	DataDelay	MDU38F-10	MDU38F-10	10ns delay	DIP 8	2	15	
U108	35	DataDelay	MDU38F-50	MDU38F-50	50ns delay	DIP 8	1	15	
R44-49	36a		56 ohm resistor	560	56 ohm resistor	1206	6	0	equivalent part OK
R28 R29	36b		390 ohm resistor		390 ohm resistor	1206	2	0	equivalent part OK
R4,R38-42	36c		1K resistor	1001	1K resistor	1206	6	0	equivalent part OK
R10,11,13-17,21-25	36c		1K resistor	1001	1K resistor	1206	12	0	equivalent part OK
R50-59,62,63,65-71	36c	*	1K resistor	1001	1K resistor	1206	19	0	equivalent part OK
R30-32,43,60,61,64,72	36d	*	10K resistor	1002	10K resistor	1206	19	0	equivalent part OK
R9,12,18,19,20,26,27	36e	*	47K resistor	4702	47K resistor	1206	7	0	equivalent part OK
R5-8	36f		1M resistor	105	1M resistor	1206	4	0	equivalent part OK
U5,6,87,88,89,90	37	TI	SN74ABTE16245DL	ABTE16245	16 bit transceiver	SOIC 48	6	15	
U1-4	38	Philips	74HCT123D		Monostable	SO16	4	15	
RC1 RC2	39	CMD	9735	CMD9735	RC network 75 ohm / 50 pF	SOIC 20	2	15	
TP1-20	40a	Newark	52F7279 type 5002		miniature PC test point	0.100" x 0.100"	20	15	
+3.3V_1,2,3,4	40b	Newark	52F7279 type 5002		miniature PC test point	0.100" x 0.100"	4	15	
+5V_1,2,3,4	40c	Newark	52F7279 type 5002		miniature PC test point	0.100" x 0.100"	4	15	
GND_1,2,3,4	40d	Newark	52F7279 type 5002		miniature PC test point	0.100" x 0.100"	4	15	
Trace1_1,2 Trace2_1,2	40e	Newark	52F7279 type 5002		miniature PC test point	0.100" x 0.100"	4	15	
Trace3_1,2 Trace4_1,2	40f	Newark	52F7279 type 5002		miniature PC test point	0.100" x 0.100"	4	15	
Trace5_1,2 Trace6_1,2	40g	Newark	52F7279 type 5002		miniature PC test point	0.100" x 0.100"	4	15	

Note: Rows marked with an asterisk (\*) have been modified from quoted Bill of Materials