

Si4735 Feather Bill of Materials								
Desig	Qty	Value	Package	Vendor	Data / Vendor PN	Digikey/Mouser	\$ @ 1	Extended
C1	1	10nF ±10% 10V X7R	0402	Samsung	CL05B103KP5NNNC	1276-1502-1-ND		0
C3, C4, C10	3	4.7µF ±10% 10V X5R	0603	Samsung	CL10A475KP8NNNC	1276-1044-1-ND		0
C5	1	47nF ±10% 10V X7R	0402	Samsung	CL05B473KP5NNNC	1276-1573-1-ND		0
C6	1	18pF ±5% 50V C0G/NP0	0603	AVX	06035U180JAT2A	478-11831-1-ND		0
C2, C7, C11	3	1µF	0402	~				0
C8	1	10µF	0603	~				0
C9	1	470nF	0402	~				0
C13	1	1µF	0603	~				0
C12, C14	2	390nF	0402	~				0
D1	1	LED_Small	0402	Dialight	5988A20107F	350-4447-1-ND	0.37	0.37
D2	1	TVS Diode	SOT-23	Diodes Inc	D1213A-01SO-7	D1213A-01SO-7DICT-ND	0.37	0.37
J3	1	3.5mm Stereo Jack	17x10.2mm Surface Mount	CUI	SJ-3523-SMT-TR	CP-3523SJCT-ND	1.37	1.37
J1, J4	1	Male Header	PinHeader_1x02_P2.54mm_Vertical	~				0
J5	1	SMA Female	EdgeMount Horizontal	Hirose	H.FL-R-SMT(01)	H9147-ND	1.88	1.88
J6	1	Terminal Block	1x02_P2.54mm_Vertical	Phoenix	1725656	277-1273-ND	1.94	1.94
L1	1	180nH 140m 2.2Ω	0603	Murata	LQW18ANR18J00D	490-6928-1-ND	0.16	0.16
Q1	1	Dual NPN	SOT363	On Semi	MBT2222ADW1T1G	MBT2222ADW1T1GOSCT-ND	0.27	0.27
R2, R3	2	10kΩ ± 1% 0.0625W	0402	Yageo	RC040FJR-0710KL	311-10.0KLRCT-ND	0.1	0.2
R5, R12	2	40.2kΩ	0402	Yageo	RC0402FR-0740K2L	311-40.2KLRCT-ND	0.1	0.2
R6, R15, R18	1	1kΩ 1%	0402	Yageo	RC0402FR-071KL	311-1.00KLRCT-ND	0.1	0.1
R7, R10, R11 R14, R16, R17	6	2.0kΩ	0402	Yageo	RC0402FR-072KL	311-2KLRCT-ND	0.014	0.084
R13	1	20kΩ	0402	Yageo	RC0402FR-0720KL	311-20.0KLRCT-ND	0.1	0.1
R1, R4	4	4.7kΩ	0402	Yageo	RC0402FR-074K7L	311-4.7KLRCT-ND	0.014	0.056
U1	1	AM/FM/SW Reciever	QFN 20 (EP) 3.0x3.0mm	Skyworks	SI4735-D60-GM	SI4735-D60-GM-ND	5.88	5.88
U2	1	i2C Translator	VSSOP-8_2.3x2mm_P0.5mm	TI	LSF0102DCUR	296-39070-1-ND	0.76	0.76
U3	1	Class AB Amp 3W	VSSOP-8_3.0x3.0mm_P0.65mm	TI	LM4871LD/NOPB	LM4871LD/NOPBCT-ND	1.57	1.57
U4	1	Inverter	SOT553	Diodes Inc	74LVC1G04Z-7	74LVC1G04Z-7DICT-ND	0.39	0.39
U5	1	RF Switch SPDT 10kHz-3GHz	SOT23-6	Analog Dev	HMC221BETR	505-HMC221BETRCT-ND	3.51	3.51
U6	1	Dual Inverter	SOT23-6	TI	SN74LVC2G04DBVR	296-13261-1-ND	0.41	1
X1	1	32778Hz TXCO	4Pin_3.2x2.5mm	ECS	ECS-327TXO-33-TR	XC3158CT-ND	5.86	5.86
Total							26.07	