

Reference	Description	Value	Quantity	Dat sheet or Part Link	Part Cost	Extended
				AliExpress. 17/25cm 5 Section Metal Full-Channel Am Fm Radio Antenna Telescopic Antenna Rotating Antenna Aerial M2.5 https://www.aliexpress.us/item/3256806492066394.html?spm=a2g0o.productlist.main.37.68f2hfX1hF12G&algo_pvid=18e0ab00-315a-4151-bd1b-13307e4b242b&algo_exp_id=18e0ab00-315a-4151-bd1b-13307e4b242b-36&pdp_ext_f=7B%22order%22%3A%2225%22%2C%22eval%22%3A%221%22%7D&pdp_npi=4%40dis%21USD%212.29%211.24%21%21%2116.60%218.96%21%40%2112000037992135363%21sea%21US%212927003445%21X&curPageLogUid=uOVdnEgyDBL&utparam-url=scene%3Asearch%3Cquery_from%3A		
				eBay for the ATT		
AE1	Antenna 3" – 8 5/8", 5 Segment, Dia. 5mm (.198")	Ant 3", 5mm	0	+ Red Enamel 26 AWG Wire Wrap	\$1.30	\$0.00
AE1 Option	ATT 5000 Cordless phone antenna	6mm Dia 3" antenna	1	eBay as low as \$3 each	\$3.00	\$3.00
BT1	6v Battery Pack - Optional	4 AA Batteries	1	Aliexpress: https://www.aliexpress.us/item/3256805289292980.html?spm=a2g0o.order_list.order_list_main.40.22231802R5bMth&gatewayAdapt=glo2usa	\$1.24	\$0.00
BT1,BT2	6v battery pack holder or 9v Battery Clip	3D Printed	2	For 6V BT1 is for a 4 - AA battery pack	\$0.50	\$1.00
BT2	Optional - DD0315NA -6v Buck converter	DD0315NA	1	For driving -6 volts when not using a second battery pack. Aliexpress	\$2.68	\$2.68
C1,C3,C6	Yellow .022uf Dummy Capacitor (22n)	Y .022uf Dummy	3	AliExpress All Electronics, Yellow Metallized polyester film radial capacitors. 22n or 22 nf desired. .022uf	\$0.07	\$0.21
C2,C4	White .001uf Dummy Capacitor (10n)	W .001uf Dummy	2	AliExpress All Electronics, White Metallized polyester film radial capacitors. Marking 10n desired. .001uf	\$0.23	\$0.46
C5	Mylar Capacitor	0.1uf	1	MLCC substitute or Jameco / AliExpress for Mylar	\$0.10	\$0.10
C7	Electrolytic Capacitor - Blue	4.7uf	1	Mouser	\$0.10	\$0.10
C8	Ceramic Disk Capacitor	220pf	1	Mouser	\$0.10	\$0.10
C9	Mylar/MLCC Capacitor	.0027uf	1	AliExpress/Mouser	\$0.02	\$0.02
C10	Mylar/MLCC Capacitor	.047uf	1	Jameco, AliExpress, Mouser	\$0.20	\$0.20
C11,C12,C13	Electrolytic Capacitor	1uf	3	Mouser	\$0.10	\$0.30
C14	MLCC Capacitor	0.33uf	1	Mouser	\$0.17	\$0.17
C15,C17	MLCC Capacitor .01 or .1uf	0.01uf	2	Mouser	\$0.10	\$0.20
C16	Electrolytic Capacitor - Black	10uf	1	Mouser	\$0.10	\$0.10
D1,D2,D3,D4,D5,D6	Signal Diode	1N914	6	Mouser	\$0.10	\$0.60
D7,D8,D9,D10,D11	Red LED	Ultra Bright Red, 5MM	5	Mouser, Lighthouse LED, AliExpress	\$0.25	\$1.25
D12	Rectifier Diode	1N4001	1	Any source	\$0.10	\$0.10
L1	EMF Pickup coil	3D Printed	1	32 gauge. 36 AWG Preferred 32g 0.11 per ft @ 120'	\$1.35	\$1.35
L2	Dummy Coil Right Side	Hand Made	1	22AWG 0.6438mm 0.0253", Copper Wire 0.65mm	\$1.00	\$1.00
LS1	Speaker 2030mm, 8 ohm, 1.5 Watt	20x30x0.4mm 1Watt	1	AliExpress. https://www.aliexpress.us/item/3256807204066808.html?spm=a2g0o.detail.pcDetailTopMoreOtherSeller.3.6110wLxwLOW&gps-id=pcDetailTopMoreOtherSeller&scm=1007.40050.354490.1	\$0.75	\$0.75
R1	1/4w Resistor	270k - 1M	1	Any source, Resistor selection based on E-Field sensitivity. Can use 1M with PWM modification	\$0.10	\$0.10
R7,R15	1/4w Resistor	1M	2	Any source	\$0.10	\$0.20
R2,R22	1/4w Resistor	22k	2	Any source	\$0.10	\$0.20
R3	1/4w Resistor	91k	1	Any source	\$0.10	\$0.10
R4	1/4w Resistor	9.1k	1	Any source	\$0.10	\$0.10
R5	1/4w Resistor	1k	1	Any source	\$0.10	\$0.10
R6,R8,R18,R20	1/4w Resistor	10k	4	Any source	\$0.10	\$0.40
R9,R11,R12,R13,R16,R23	1/4w Resistor	100k	6	Any source	\$0.10	\$0.60
R10	1/4w Resistor	10M	1	Any source	\$0.10	\$0.10
R14	1/4w Resistor	3.3M	1	Any source	\$0.10	\$0.10
R17	1/4w Resistor	2.2M	1	Any source	\$0.10	\$0.10
R19	1/4w Resistor	3.9-15k	1	Any source, 3.9k for 1.5v scale/15k for 3V scale/6.8k with PWM modification and 3v scale	\$0.10	\$0.10
R21	1/4w Resistor	1.8k	1	Any source	\$0.10	\$0.10
R24	1/4w Resistor	1.2k	1	Any source	\$0.10	\$0.10
R25	1/4w Resistor	33	1	Any source	\$0.10	\$0.10
R26	1/4w Resistor (Optional, for 3v scale)	1.5k	1	Any source	\$0.10	\$0.10
RV1,RV2	Variable resistor. 3326/3386 F or P series	100k	2	Mouser Electronics, https://www.mouser.com/ProductDetail/Bourns/3386H-1-104LF?qs=m2uG%2FfdTAPVxro77x9HS0w%3D%3D Jameco https://www.jameco.com/z/3386P-1-104LF-JVP-Jameco-ValuePro-1-2-Watt-3-8-Square-Trimming-Potentiometer-100k-Ohm_43027.html (\$0.99) PT15NV02-502A	\$0.99	\$1.98
RV3	1k/5k ohm, Variable resistor (PT15 Series)	5k	1	Included with VU meter or Jameco for PT15 Black Pot	\$0.30	\$0.30
SW1	SW_Coded_EECO_2700	EECO 276133M	1	eBay. A Variety of switches are supported.	\$15.00	\$15.00
SW2	SW_DIP_x04, Flat or Piano	SW_DIP_x04	1	Mouser, https://www.mouser.com/ProductDetail/CTS-Electronic-Components/195-4MS?qs=hDoPxpGr7ldwh3tetBscOg%3D%3D	\$0.92	\$0.92
SW3,SW4,SW5	SW_Push. 6x6x5mm SPST	Tactile Switches,6X6	3	Mouser, AliExpress	\$0.40	\$1.20
SW6	SW_DPDT		1	Mouser, C&K E201MD1AQE (\$15.46) or E-Switch 100DP1T1B1M6QE (\$4.35) https://www.mouser.com/ProductDetail/CK/E201MD1AQE?qs=c89up6qpALNEJs%2FyQ1km0A%3D%3D https://www.mouser.com/ProductDetail/E-Switch/100DP1T1B1M6QE?qs=wUXugUrL1qxY%252BjsepFRcA%3D%3D	\$15.46	\$15.46
U1	TL084ACN	TL084ACN	1	Mouser	\$0.74	\$0.74
U2	ATTiny85-20P	ATTiny85-20P	1	Mouser	\$1.66	\$1.66
U3	DF Player PCB	MP3-TF-16P	1	AliExpress. MP3-TF-16P Blue LED. Do not use MP3-TF-16P V3.0 w/ red LED. Too slow. Original DF Player Mini, Blue LED and DF Player Mini V0.5.1, Red LED also work.	\$3.00	\$3.00
U4	7805 To-220	L78N05	0	Minimum 500ma output. w/ 9v source	\$0.35	\$0.00
U7	LF50CDT TO-252/DPAK	LF50CDT	1	Minimum 500ma output. w/ 6v source need LDO, LF50CDT Mouser https://www.mouser.com/ProductDetail/511-LF50CDT-TR	\$0.35	\$0.35
U5	LM3914N	LM3914N	1	AliExpress	\$0.20	\$0.20
VU1	Meter Element Decibel Measurement on AC Voltage Range Analog Multimeter Tester for ACDC 1000V500m A/Voltmeter Ammeter Ohmmeter Meter Volt	MF-110A	1	AliExpress, https://www.aliexpress.us/item/3256807924391371.html?spm=a2g0o.order_list.order_list_main.10.52c81802ReQu2H&gatewayAdapt=glo2usa	\$3.71	\$3.71
VU1_BASE	3D Printed Base for MF-110 Meter element		1		\$1.20	\$1.20
MS-M3	Mechanical screw, Battery Holder	M3 x 6mm	4	AliExpress	\$0.03	\$0.12
MS-8	Mechanical Standoff, Battery Holder	M3-10mm	4	AliExpress	\$0.14	\$0.56

Total Cost\$62.69