

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 <a href="https://www.aliexpress.us/item/3256806492066394.html?spm=a2g0o.productlist.main.37.68f2hfx1hX12G&amp;algo_pvid=18e0ab00-315a-4151-bd1b-13307e4b242b&amp;algo_exp_id=18e0ab00-315a-4151-bd1b-13307e4b242b-36&amp;pdp_ext_f=%7B%22order%22%3A%2225%22%2C%22eval%22%3A%221%22%7D&amp;pdp_npi=4%40dis%21USD%212.29%211.24%21%21%2116.60%218.96%21%40%2112000037992135363%215ea%21US%212927003445%21X&amp;curPageLogUid=uOVdVnEgyDBL&amp;utparam-url=scene%3Asearch%7Cquery_from%3A">https://www.aliexpress.us/item/3256806492066394.html?spm=a2g0o.productlist.main.37.68f2hfx1hX12G&amp;algo_pvid=18e0ab00-315a-4151-bd1b-13307e4b242b&amp;algo_exp_id=18e0ab00-315a-4151-bd1b-13307e4b242b-36&amp;pdp_ext_f=%7B%22order%22%3A%2225%22%2C%22eval%22%3A%221%22%7D&amp;pdp_npi=4%40dis%21USD%212.29%211.24%21%21%2116.60%218.96%21%40%2112000037992135363%215ea%21US%212927003445%21X&amp;curPageLogUid=uOVdVnEgyDBL&amp;utparam-url=scene%3Asearch%7Cquery_from%3A</a>  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	AliExpress: <a href="https://www.aliexpress.us/item/3256805289292980.html?spm=a2g0o.order_list.order_list_main.40.22231802R5bMth&amp;gatewayAdapt=glo2usa">https://www.aliexpress.us/item/3256805289292980.html?spm=a2g0o.order_list.order_list_main.40.22231802R5bMth&amp;gatewayAdapt=glo2usa</a>		\$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. <a href="https://www.aliexpress.us/item/3256807204066808.html?spm=a2g0o.detail.pcDetailTopMoreOtherSeller.3.6110LwxLwXLOW&amp;gps-id=pcDetailTopMoreOtherSeller&amp;scm=1007.40050.354490">https://www.aliexpress.us/item/3256807204066808.html?spm=a2g0o.detail.pcDetailTopMoreOtherSeller.3.6110LwxLwXLOW&amp;gps-id=pcDetailTopMoreOtherSeller&amp;scm=1007.40050.354490</a>		\$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	Mouser Electronics, <a href="https://www.mouser.com/ProductDetail/Bourns/3386H-1-104LF?qs=m2uG%2FfdTAPVxro77x9H50w%3D%3D">https://www.mouser.com/ProductDetail/Bourns/3386H-1-104LF?qs=m2uG%2FfdTAPVxro77x9H50w%3D%3D</a> Jameco <a href="https://www.jameco.com/z/3386P-1-104LF-JVP-Jameco-ValuePro-1-2-Watt-3-8-Square-Trimming-Potentiometer-100k-Ohm_43027.html">https://www.jameco.com/z/3386P-1-104LF-JVP-Jameco-ValuePro-1-2-Watt-3-8-Square-Trimming-Potentiometer-100k-Ohm_43027.html</a> (\$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, <a href="https://www.mouser.com/ProductDetail/CTS-Electronic-Components/195-4MS?qs=hDoPxpGr7ldwh3tetBscOg%3D%3D">https://www.mouser.com/ProductDetail/CTS-Electronic-Components/195-4MS?qs=hDoPxpGr7ldwh3tetBscOg%3D%3D</a>		\$0.92	\$0.92
SW3,SW4,SW5	SW_Push. 6x6x5mm SPST	Tactile Switches,6X6	3 Mouser, AliExpress Mouser, C&K E201MD1AQE (\$15.46) or E-Switch 100DP1T1B1M6QE (\$4.35) <a href="https://www.mouser.com/ProductDetail/CK/E201MD1AQE?qs=c89up6qpALNEJs%2FyQ1km0A%3D%3D">https://www.mouser.com/ProductDetail/CK/E201MD1AQE?qs=c89up6qpALNEJs%2FyQ1km0A%3D%3D</a> <a href="https://www.mouser.com/ProductDetail/E-Switch/100DP1T1B1M6QE?qs=wUXugUrL1qxY%252BjsepFRcA%3D%3D">https://www.mouser.com/ProductDetail/E-Switch/100DP1T1B1M6QE?qs=wUXugUrL1qxY%252BjsepFRcA%3D%3D</a>		\$0.40	\$1.20
SW6	SW_DPDT		1 7mm MTS-202C3 AliExpress (Chrome casing \$1.18)		\$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 <a href="https://www.mouser.com/ProductDetail/511-LF50CDT-TR">https://www.mouser.com/ProductDetail/511-LF50CDT-TR</a>		\$0.35	\$0.35
U5	LM3914N	LM3914N	1 AliExpress		\$0.20	\$0.20
	Meter Element Decibel Measurement on AC Voltage Range Analog Multimeter Tester for ACDC 1000V500m A/Voltmeter Ammeter Ohmmeter Meter Volt					
VU1	Requires a 3D printed base	MF-110A	1 AliExpress, <a href="https://www.aliexpress.us/item/3256807924391371.html?spm=a2g0o.order_list.order_list_main.10.52c81802ReQu2H&amp;gatewayAdapt=glo2usa">https://www.aliexpress.us/item/3256807924391371.html?spm=a2g0o.order_list.order_list_main.10.52c81802ReQu2H&amp;gatewayAdapt=glo2usa</a>		\$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
Wire	Antenna Coil, 26 AWG (.415mm) Red enameled wire. 2 layers of wire wrap.	26 AWG	Amazon, AliExpress, Jameco			\$0.00
Wire	EMF Pickup Coil 36 AWG wire, 350 turns ~ 70'	36 AWG	Amazon, AliExpress Jameco: 24 AWG 10 Color Stranded Wire Kit Assortment			\$0.00
Wire	Rainbow wire L2 Coil (22 AWG, 0.6438mm 0.0253")	24 AWG	<a href="https://www.jameco.com/z/UL-1007-10CS-Jameco-ValuePro-24-AWG-10-Color-Stranded-Wire-Kit-Assortment_2187876.html">https://www.jameco.com/z/UL-1007-10CS-Jameco-ValuePro-24-AWG-10-Color-Stranded-Wire-Kit-Assortment_2187876.html</a>			\$0.00
Wire	~ 50" of solid 22 AWG copper wire	22 AWG	Used a strand from 10AWG stranded cable			\$0.00
Total Cost					\$62.69	