

Sheet1

			Farnell	RS	Chosen		
Component	Value	Num	Code	Cost	Code	Cost	Total Note
U1	Arduino Micro	1			771-7667	£15.74	£15.74 With headers
DDS	DDS Module	1				£7.99	£7.99 AD9850 DDS Signal 0-40MHz from 'heavends' on eBay, may be cheaper elsewhere!
U2	MCP6002	1			403-036	£0.24	£0.24 MCP6002-I/P Dual Op-Amp 1MHz CMOS R-R 3, 5V 8-Pin PDIP
U3	LM7805CT	1			671-0309	£0.49	£0.49
U4	L7809CV	1	1087089	£0.42		£0.42	£0.42
D1,2	AA143	2				£0.60	£1.20 Germanium RF diode from 'slamme58' on eBay (bought 10pk)
C1	1uF elec	1			3654199	£0.07	£0.07
C2,4	100nF ceramic	2			5381203	£0.16	£0.32 =0.1uF
C3,5,6	10nF ceramic	3	1650710	£0.18		£0.18	£0.54 =0.01uf, 10000pf
C7,8,9	10uF elec	3	2346601	£0.07		£0.07	£0.21
R1,2,3	50Ω	3	2396015	£0.37		£0.37	£1.11 Metal film 1% axial
R4,8	10KΩ	2			132-731	£0.03	£0.05 Carbon film 0.5W
R5,9	100KΩ	2			7078388	£0.02	£0.04 Carbon 0.5W, 5%
R6,10	5KΩ (10KΩ preset)	2	1227524	£0.22		£0.22	£0.44 Could not find cheap 5KΩ resistors so chose 10KΩ side adjust trimmer
R7,11	649Ω	2	1563247	£0.37		£0.37	£0.74 Circuit required 648Ω but could not find, so chose 649Ω, 0.25W, 0.5%, 50PPM
ANT	50Ω	1	1169707	£1.68		£1.68	£1.68 UHF bulkhead RF coaxial socket, takes a PL-259
PWR SOCK	Socket	1	1243247	£1.07		£1.07	£1.07 Power socket
PWR PLUG	Plug	1	1568397	£1.18		£1.18	£1.18 Power plug, 4A, 12V
CASE		1	1877411	£5.56		£5.56	£5.56 120x120x59mm, grey ABS
DIP8	8-pin DIP Socket	1			813115	£0.35	£0.35
PIN STRIP	32 way pin strip	2			2677416	£0.75	£1.50 For Arduino and DDS
BOARD	Veroboard	1	1536938	£6.73		£6.73	£6.73 Need 38 strips x 31 holes, 96mm x 81mm, 2.54mm hole spacing stripboard.
							This is 121.92mm x 101.6mm, 41 tracks x 44 holes
						Grand Total	
						£47.69	