

DCFRX Partlist 16/02/12 SJM@MCL

QTY	PART TYPE	Value / suffix	PKG	MANU	DISTRIBUTOR	PRICE	TOTAL	REF DES	NOTES
1	MSFRX RevA PCB	1.6mm FR4	PTH	PCBTrain	PCBTrain	£12.00	£12.00		PCB
1	MCP6024	I/P	DIP14	Microchip	Farnell: 162-7199	£2.27	£2.27	U1	Quad op amp
1	MCP6022	E/P	DIP8	Microchip	Farnell: 133-2125	£1.14	£1.14	U2	Dual op amp
1	74LS06	N	DIP14	TI	Farnell: 173-9683	£0.30	£0.30	U3	hex inv o/c buffer
1	LP2980	AIM5-3.0	SOT23/5	Nat Semi	Farnell: 977-9949	£0.37	£0.37	U4	LDO 3v0
1	DSPIC33FJ32GP202	I/SP	DIP28	Microchip	Farnell: 157-6913	£2.63	£2.63	U5	Digital signal controller
1	CFPT141	VCX0018792	SMD4	IQD	Farnell: n/a	£5.11	£5.11	U6	VCXO 19.2Mhz
1	LM1117MP	-3.3	SOT223	Nat Semi	Farnell: 146-9051	£0.71	£0.71	U7	LDO 3v3
1	LP2980	AIM5-3.3	SOT23/5	Nat Semi	Farnell: 121-2201	£0.47	£0.47	U8	LDO 3v3
1	H11F1	M	DIP6	Fairchild	RS: 456-383	£0.52	£0.52	ISO1	opto bilateral FET
1	BSR18A / BC807	(PNP)	SOT23	NXP	Farnell: 108-1219	£0.08	£0.08	Q1	or any small sig PNP
1	LED	bi-colour	t/hole		Farnell: 114-2488	£0.37	£0.37	LED1	Two-pin red/grn
4	TANTB	10u, 10V	B	AVX	Farnell: 183-3918	£0.30	£1.20	CT1..4	Tantalum cap
9	DCAP	0.1u 25V X7R	0805			£0.10	£0.90	CD1..7,9,10	Decoupling cap
1	DCAP	1u 10V X7R	0805			£0.10	£0.10	CD8	Decoupling cap
1	CAPR6	Mica 1% 150p	6mm rad	Cornell/Dub	Farnell: 126-4882	£1.31	£1.31	C1	High precision, high stability
1	CAPR6	Mica 1% 270p	6mm rad	Cornell/Dub	Farnell: 126-4885	£1.31	£1.31	C2	High precision, high stability
1	CAPR9	Mica 1% 1800p	9mm rad	Cornell/Dub	Farnell: 126-4896	£1.98	£1.98	C3	High precision, high stability
3	CAPR6	Mica 1% 120p	6mm rad	Cornell/Dub	Farnell: 126-4881	£1.31	£3.93	C4..6	High precision, high stability
7	CAP	See schematic	0805			£0.10	£0.70	C7..13	See schematic for values
1	SIMID2220	10mH, 25mA	2220	EPCOS	Farnell: 158-938	£0.82	£0.82	L1	Inductor
1	SIMID2220	1mH, 85mA	2220	EPCOS	Farnell: 158-847	£1.18	£1.18	L2	Inductor
17	RES	See schematic	0805			£0.02	£0.34	R1, R8..23	See schematic for values
1	RES400	9k31 0.1%	.4" axial	Tyco/Hols'y	Farnell: 175-1547	£0.48	£0.48	R2	High precision metal film
1	RES400	20k 0.1%	.4" axial	Tyco/Hols'y	Farnell: 175-1583	£0.48	£0.48	R3	High precision metal film
1	RES400	7k15 0.1%	.4" axial	Tyco/Hols'y	Farnell: 175-1535	£0.44	£0.44	R4	High precision metal film
1	RES400	14k3 0.1%	.4" axial	Tyco/Hols'y	Farnell: 175-1567	£0.48	£0.48	R5	High precision metal film
1	RES400	3k65 0.1%	.4" axial	Tyco/Hols'y	Farnell: 175-1503	£0.48	£0.48	R6	High precision metal film
1	RES400	4k22 0.1%	.4" axial	Tyco/Hols'y	Farnell: 175-1510	£0.48	£0.48	R7	High precision metal film
1	MOLEX3	3 x 0.1"				£0.30	£0.30	J1	.1" pin header
1	MOLEX8	8 x 0.1"				£0.80	£0.80	J2	.1" pin header
1	MOLEX5	5 x 0.1"				£0.50	£0.50	J3	.1" pin header
1	MOLEX1	1 x 0.1"				£0.10	£0.10	J4	.1" pin header
							£0.00		

Note CFPT141 also available from distrelec.de, H11F1 available from musikding.de

Feedback from other constructors indicates that the circuit may not work with VCXOs other than that specified.

DCFRx Active antenna

1	DCF Antenna assy	77.5kHz			Conrad	£13.42	£13.42	(J1)	Ferrite, coil & cap assembly
1	MCP6022	E/P	DIP8	Microchip	Farnell: 133-2125	£1.14	£1.14	U1	Dual op amp
1	TANTB	10u, 10V	B	AVX	Farnell: 183-3918	£0.30	£0.30	CT1	Tantalum cap
1	SIMID2220	10mH, 25mA	2220	EPCOS	Farnell: 158-938	£0.82	£0.82	L1	Inductor
2	CAP	1u 10V X7R	0805			£0.10	£0.20	C1,2	Decoupling cap
1	DCAP	0.1u 25V X7R	0805			£0.10	£0.10	CD1	Decoupling cap
5	RES		0805			£0.02	£0.10	R1..5	See schematic for values
1	MOLEX3	3 x 0.1"				£0.30	£0.30	J2	.1" pin header

£60.66