



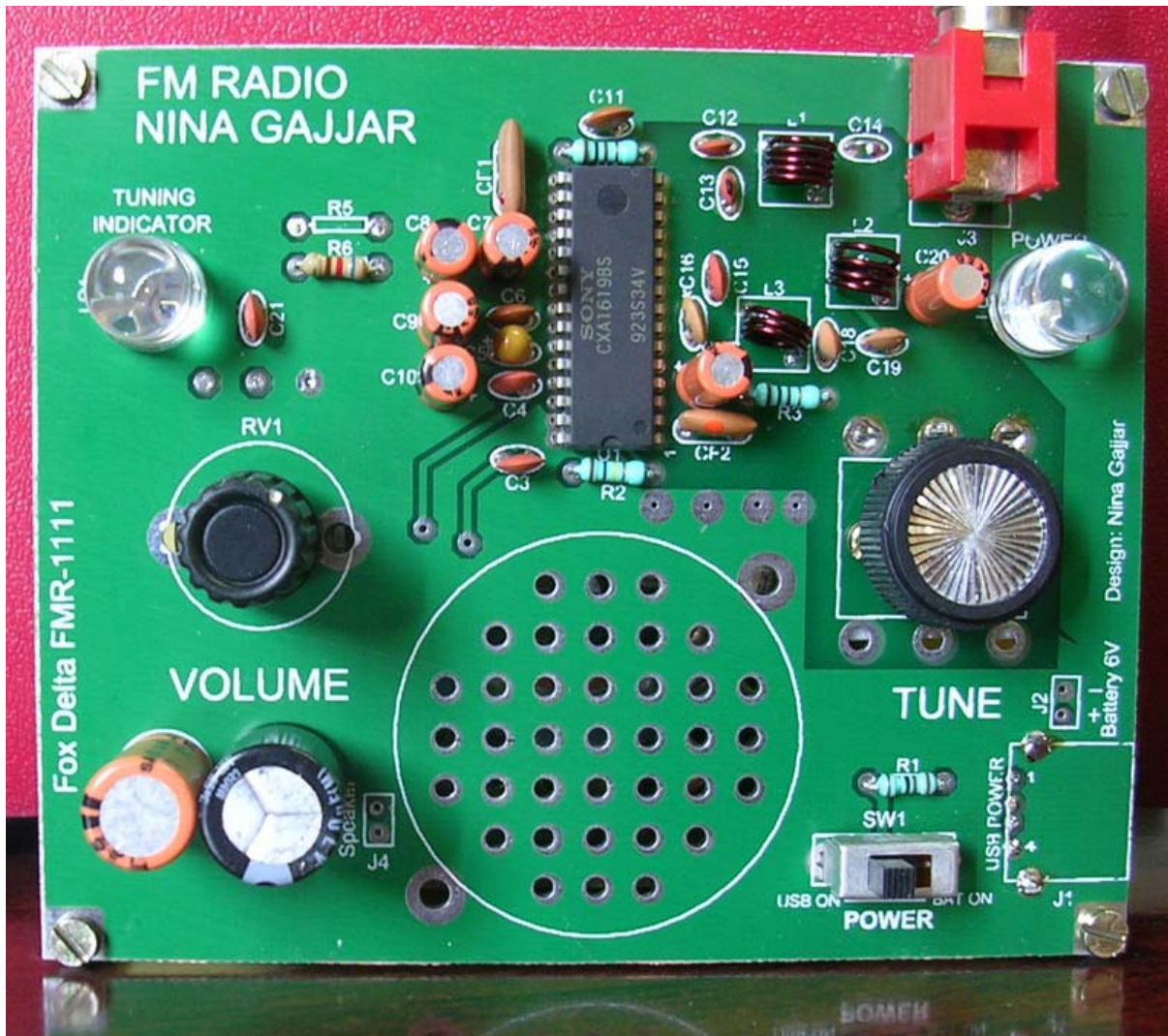
Fox Delta

Science Projects by Nina Gajjar

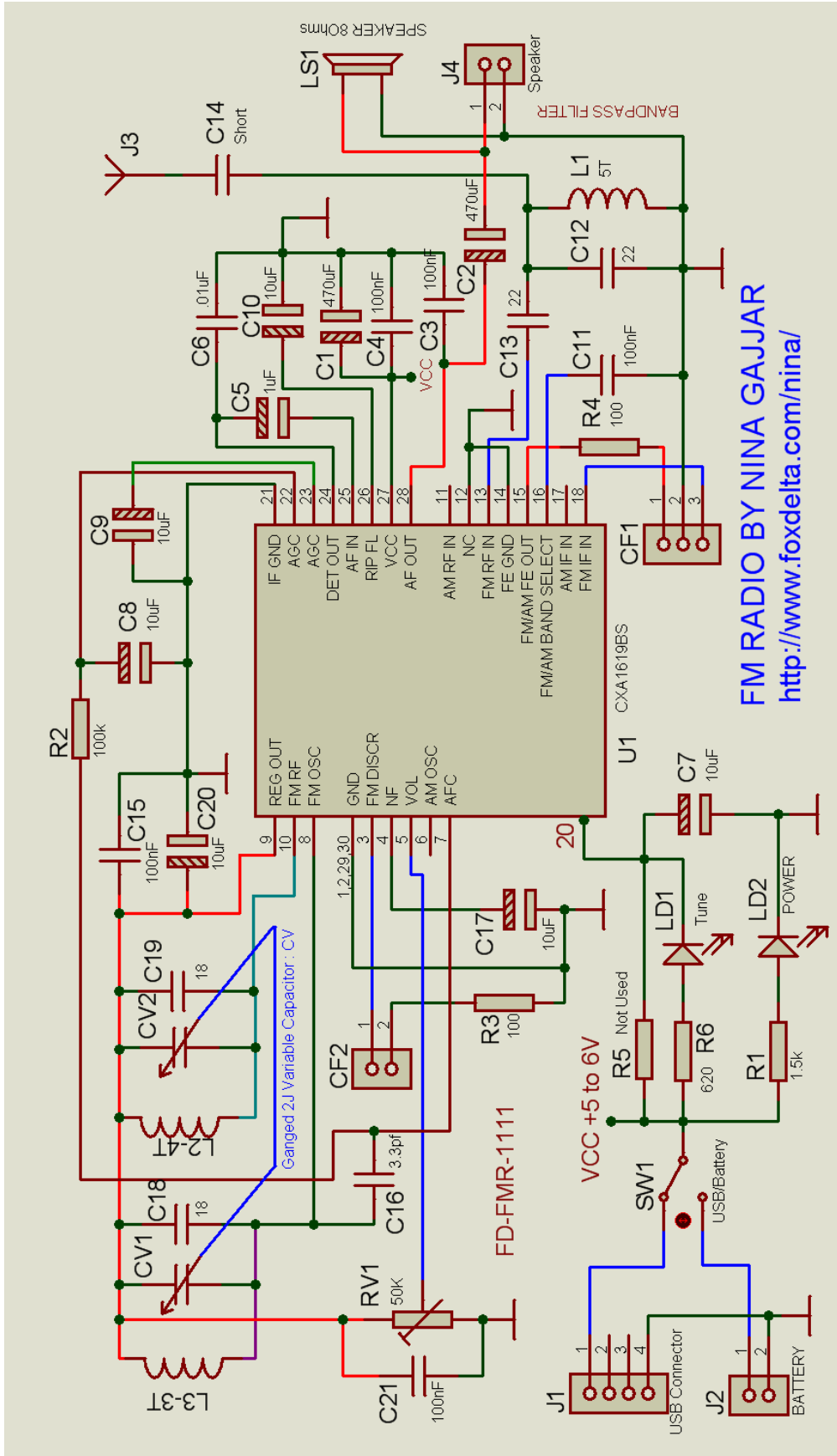
FM Radio

FM Radio KIT Schematic & Parts List




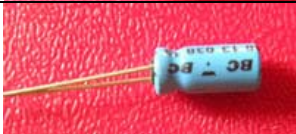



FM Radio: FD-FMR-1111








FM Radio Schematic:



FM Radio Parts List:

No	PART ID		Details
Resistors			
1	R1		Resistor 1.5K 1/4w
1	R6		Resistor 620 Ohms
1	R2		Resistor 100K
2	R3, 4		Resistor 100 Ohms
1	R5		Not Used
Capacitors			
5	C21, 4, 3, 11, 15,		0.1uf Ceramic
1	C16		3.3pf Ceramic
1	C6		0.01uf Ceramic
2	C18, 19		18pf Ceramic
2	C13, 12		22pf Ceramic
1	C2		470uf Electro
1	C1		330uF Electro
6	C7, 8, 9, 10, 17, 20		10uf Electro
1	C5		1uf Tantalum
Other Parts			
1	CF1		SFE10.7 Ceramic Filter
1	CF2		10.7MHZ Discriminator

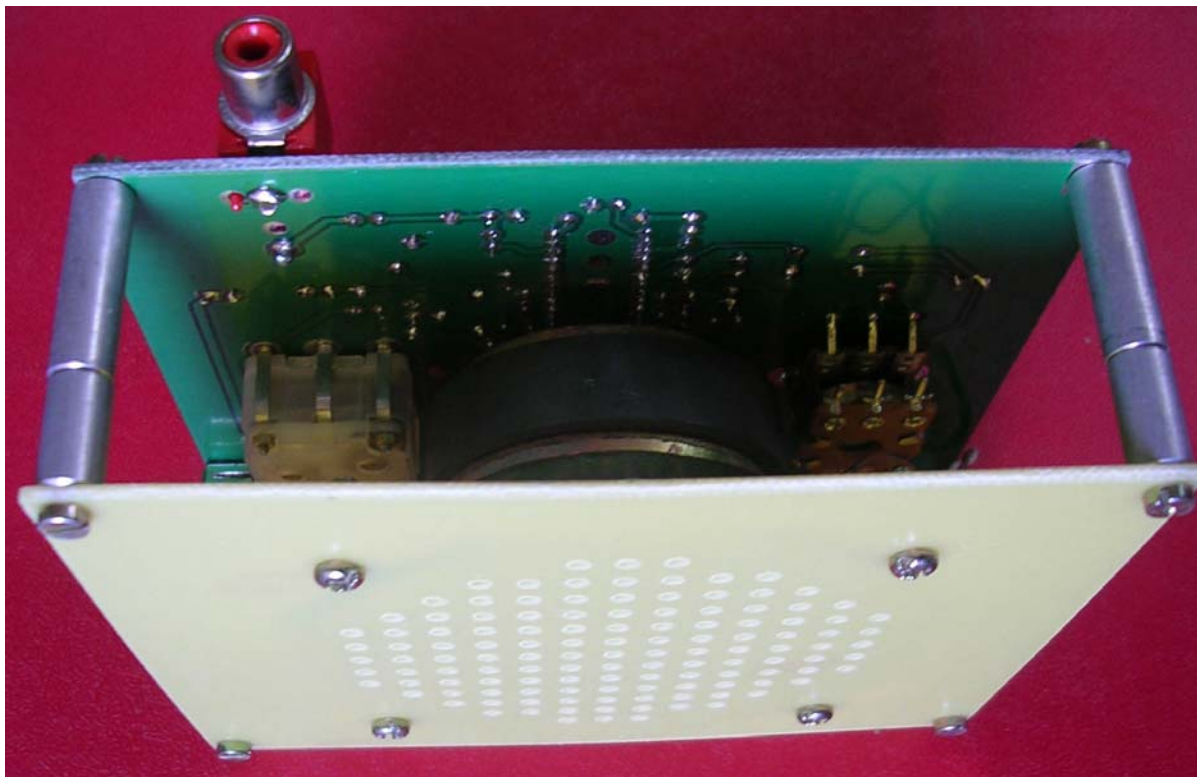
1	CV		2J Dual Gang Variable Capacitor with knob
1	RV1		50K Audio Volume Control with Knob
2	LD1, LD2		Power and Tuning Indicator LEDs Red for Tune, Green for Power
1	U1		Sony CXA1619BS
1	Speaker		8 Ohms
1	Switch - SW		USB/Battery POWER ON/OFF
1	J1		USB PCB Connector

1	J3		RCA Type PCB R/A Socket
1	Antenna		RCA Male Antenna Plug
1	L3		3 Turn Inductor 4MM Dia
1	L2		4 Turn Inductor 4mm Dia
1	L1		5 Turn Inductor 4mm Dia
1	PCB FMR-1111		FD-FMR-1111 Double Sided PTH PCB
1	PCB-SPEAKER		For Speaker MMounting
1	USB Cable		USB Power Supply
1	Mounting Hardware		For Speaker
2	Knobs		Volume and Tune
1	Hardware		Spacers x4

Notes:

1. IC is to be soldered directly on PCB without a socket.
2. Radio works on USB 5V or 6V external supply. (4xAA)
3. USB Connector mounts on the bottom side of PCB.
4. KITS may be supplied IC pre-soldered.

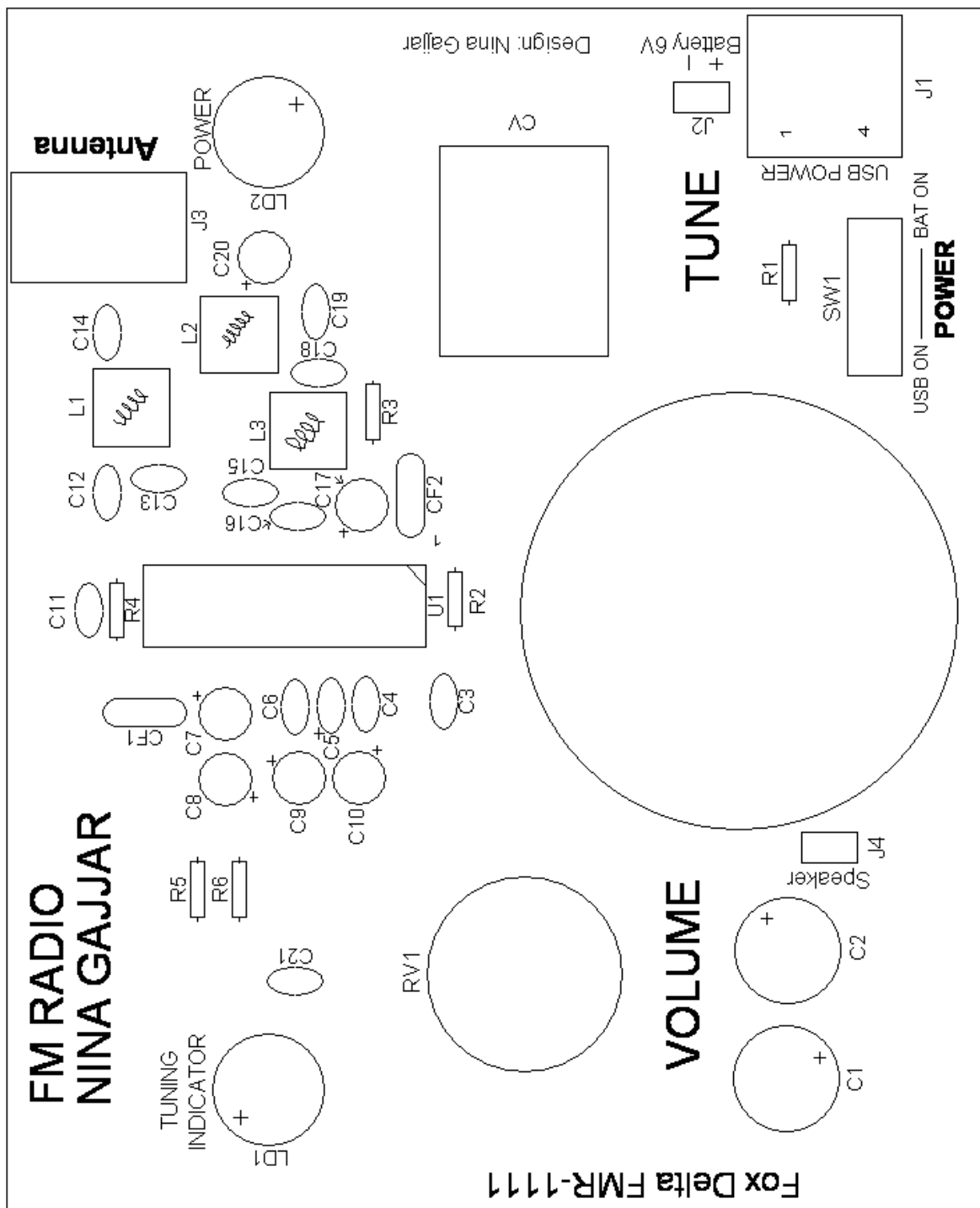
Speaker Board:



TOP View



Front Silk: FM Radio PCB:



Have Fun!! Merry Xmas 2011

Regards / Nina Gajjar

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