



# Fox Delta

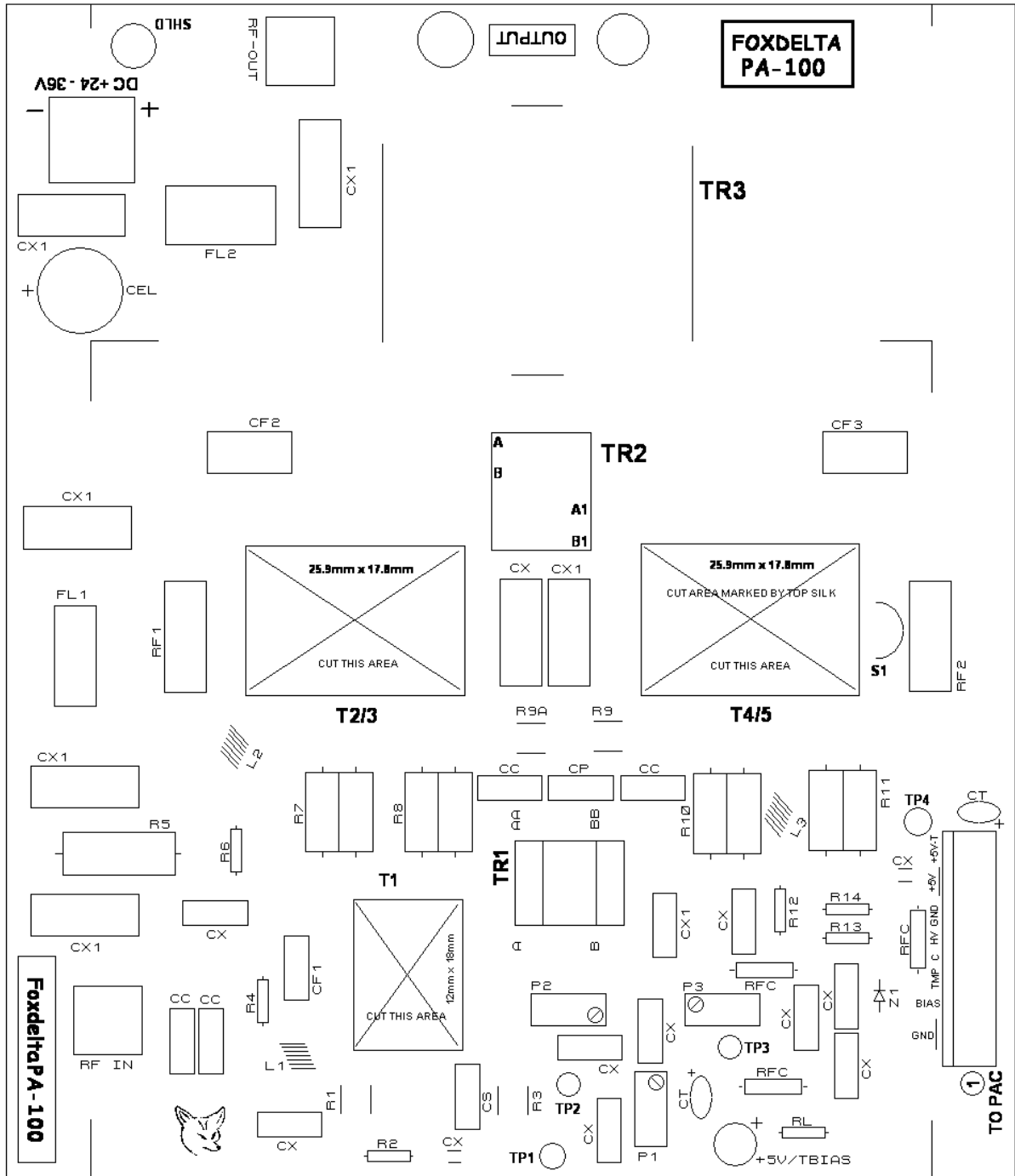
Amateur Radio Projects & Kits

PA 100

Tech Info Doc: 4 x IRF510 100W HF POWER AMPLIFIER: DC 24V to 36V

## PA-100: 100W RF POWER AMPLIFIER PARTS LIST

### PA100 TOP SIDE SILK VIEW:



## PA 100 DIY KIT Parts List:

Quantity	Part ID	Details
5*	T1, 2, 3, 4, 5	IRF510 (Kits available without FETs)
1	FL1	80uH filter Toroid x 1 piece
1	FL2, TR1	Fair-rite 2843000302 x 2 pieces
1	TR3	Fair-rite 2643625102 X 2pieces
1	TR2	Fair-rite 5943001102 L 2 Stacked
2	SMA	PCB/Sreight/Female Connectors
1	Power Terminal	2PIN Screw Terminal Type 5002
1	SIL10 Male PCB	Control Connector 10-PIN Male & a 15cm long ribbon with female 10SIL
3	L1, 2, 3	7turn air inductors
3	P1, 2, 3	10K 10Turn Presets
1	PCB	PA-100 DSPTH FR4 PCB
1	Heat sink	125mm x 190mm x 10mm (Thick)
1	S1	MCP9700 Temp sensor TO92
1	U1	ACS712-12 Current Sensor
1 set	Set	Hardware for PCB to Heat sink
1 set	TR3 Wire	Teflon wire for 3:2 turns
1 set	TR2, TR2	Copper & tefoln wires
1	LED	3mm (indicates "T" +5V)

### Resistors –

Quantity	Part ID	Details
8	R7, 8, 10, 11	2.2 ohms 2W
2	RF1, 2	680 ohms 2W
1	R5	10 Ohms 2W
1	R1	2225 100 ohms x 2 Stacked
1	R2, R13	1k 1/4w
1	R4	560 ohm 1/4w
1	R3	2225 2.2 ohms
2	R6, 12	27 ohms 1/4w
1	R14	10K 1/4w
1	RL	1K 1/4w (For LED)

### Capacitors:

Quantity	Part ID	Details
7	CX1	100nf 400V
2	CF2, CF3	10nf 400V
1	CF1	10nf 400V
5	CC, CX1	100nf 100V
10	CX	100nf 50V
9	CX 1206	100nf SMT
1	CS	510pf Ceramic
4	FB 1206	Ferrite bead
1	CT	1uf Tantalum

73s

Dinesh Gajjar / 241024

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