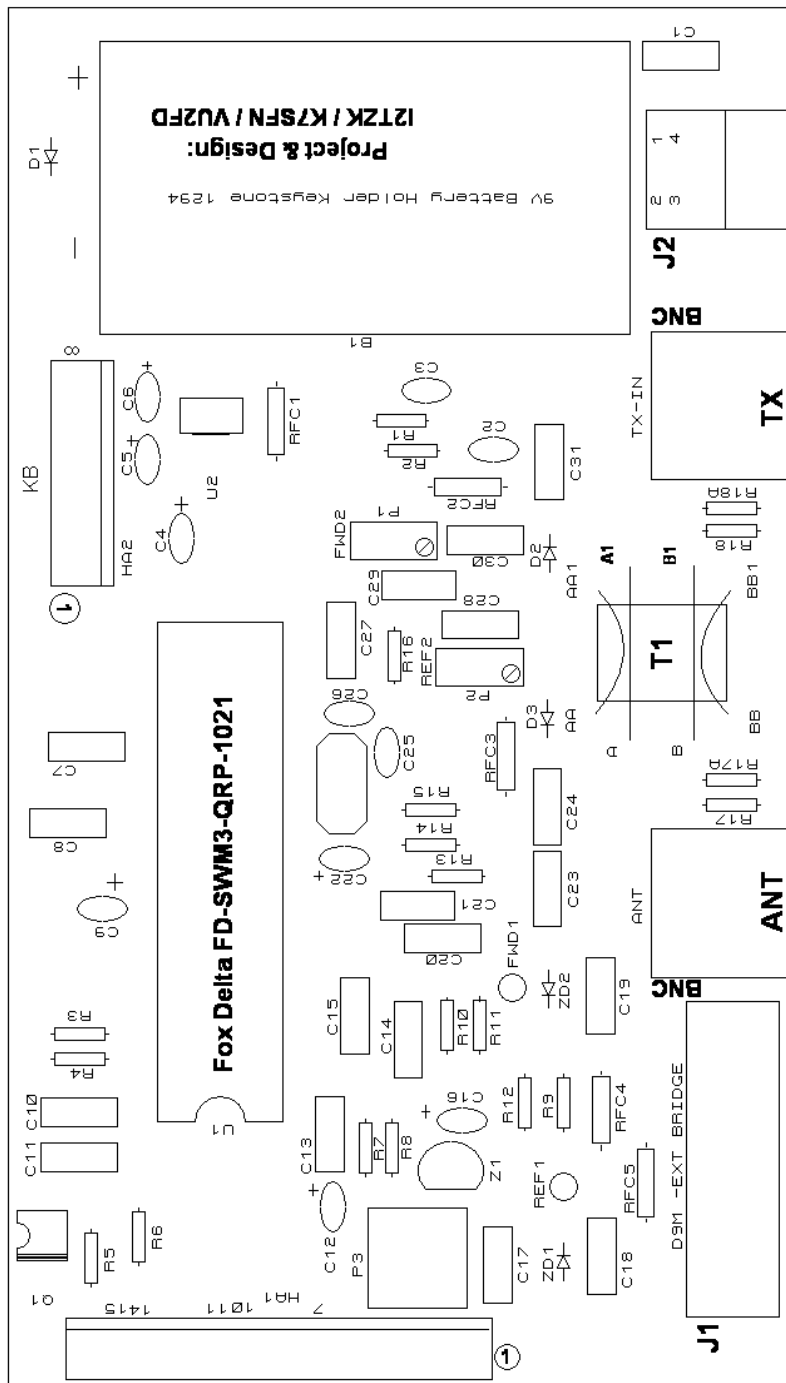


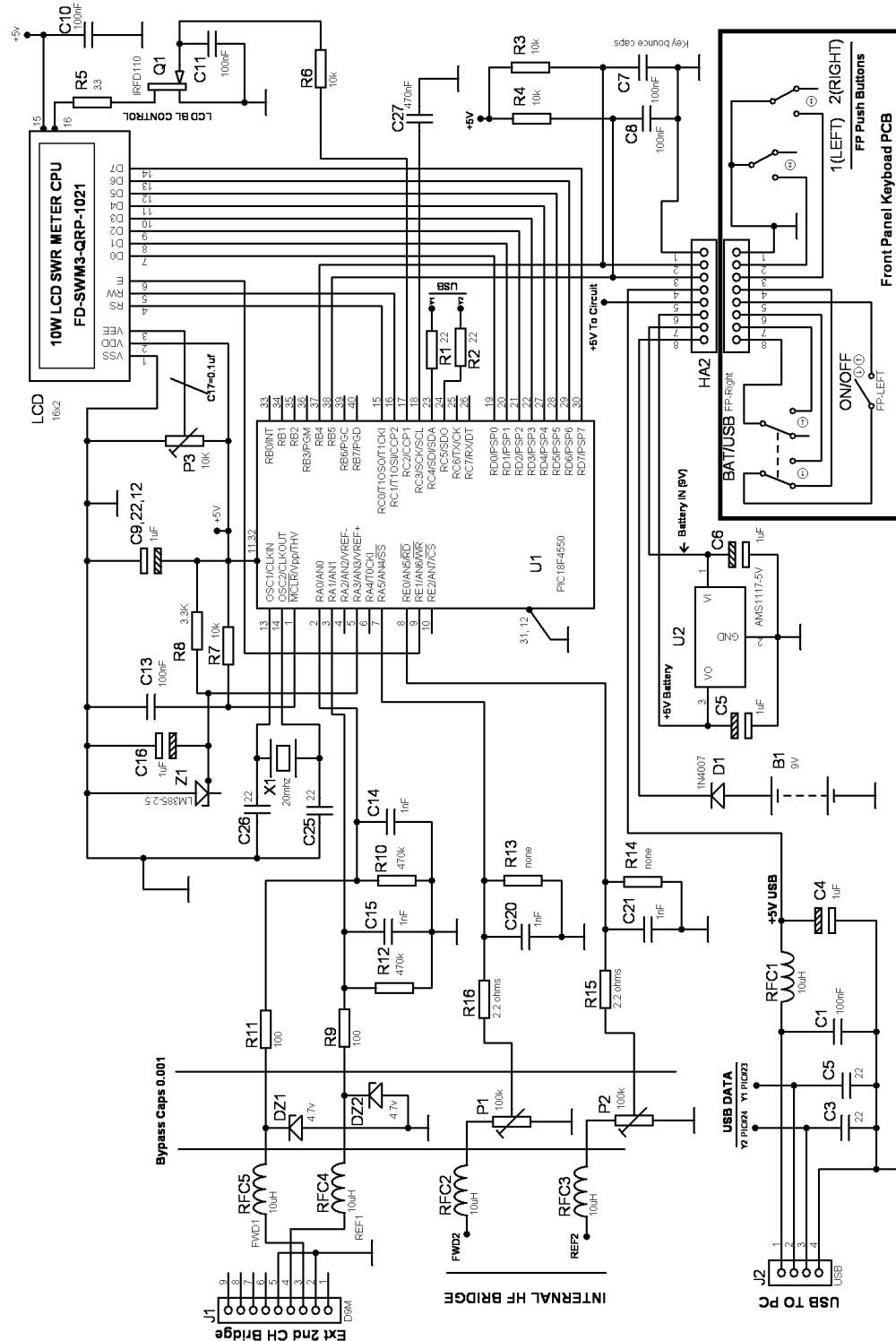


FD- SWM3-QRP

SWM3-QRP-1021: PCB Rev 1021: PCB TOP Side Silk:



Schematic: SWM3-QRP-1021: Part 1



Note:

For Optional Second Channel SWR Measurement, Please check details of HFB3 Bridge. (Available as an option in kits)

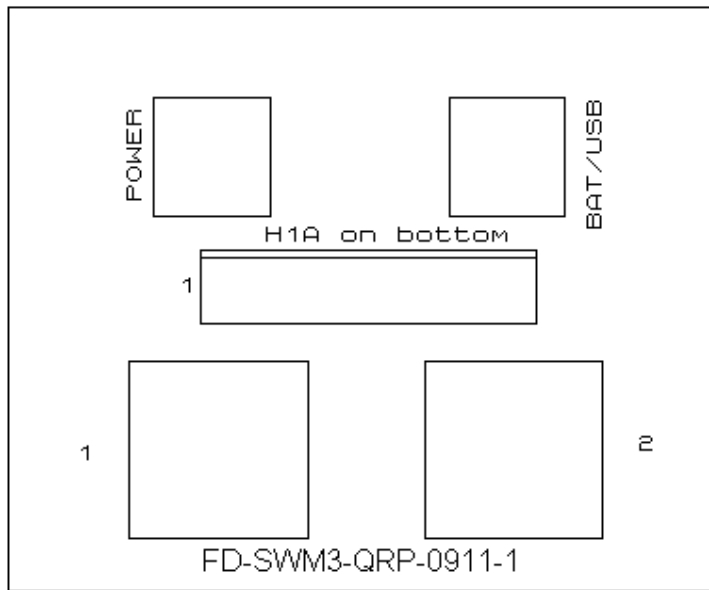
Project & Design by: Antonio Alfinito (Tony) / I2TZK, Dinesh Gajjar / VU2FD, Frank Dziurda / K7SFN

Fox Delta SWM3-QRP-1021 PART-1 <http://www.foxdelta.com>

SWM3-QRP-1021 Parts List:

Quantity	Part ID	Part Details
1	U1	PIC18F4550 Pre-Programmed DIP40 QRP V1.0
1	U2	AMS1117-5V SMT (Pre-Soldered)
1	Q1	IRFD110
1	Z1	LM385-2.5V TO92
2	ZD1, 2	Zener Diode 4.7v
2	FP-Push Switch	ON/OFF Switches Front Panel
2	KB -Push Buttons	12mm Push Buttons for Front Panel KB
1	J2	USB R/A Socket
2	ANT/TX	BNC R/A
1	PCB-KB	Double Sided PTH PCB LED-KB-0911-1
1	PCB	Double Sided PTH PCB SWM3-QRP-1021
1	B1	Battery Case 9V Keystone 1294 (Option)
1	HA1	16PIN SIL Male and Ribbon for LCD
1	T1	Fair-rite Binocular core 2843000302 with 1M Long #28 copper wire
1	HA2	8PIN SIL Male and Ribbon for Keyboard
1	LCD	2x16 LCD with Backlight
1	P3	10K Preset (LCD Contrast)
1	X1	20MHZ Crystal in HC49U
1	D1	1N4007
2	D2, 3	BAT85
1	40DIP	IC Socket
1	J1	D9M R/A Socket (Ext Bridge)
3	RFC1, 4, 5	RFC Inductors (10-47uH)
2	RFC 2, 3	RFC Inductors (82uH)
2	P1, 2	100K Bourns 3296 10T Presets
1	Set Hw	Nut / Bolts for LCD and KB Mounting
1	Case	Free Powder Coated Metal Case + HW
All Resistors ¼ W 5%		
2	2.2 Ohms	R15, 16 (used as a Jumper)
4	10K	R3, 4, 6, 7,
2	470K	R10, 12
1	3.3K	R8
0	NU	R13,14 (Not Used)
1	33	R5
6	100 ohms	R17, 17A, 18, 18A, 9, 11
2	22 ohms	R1, 2
Capacitors		
7	1uf Tantalum/35V	C4, 5, 6, 9, 12, 16, 22
4	22pf	Ceramic – R2, 3, 26, 25
1	0.47 Ploy	C27,
9	0.1uf Poly	C1, 7, 8, 10, 11, 17, 24, 13, 31,
10	0.001uf Poly	C18, 15, 19, 20, 21, 14, 23, 29, 28, 30

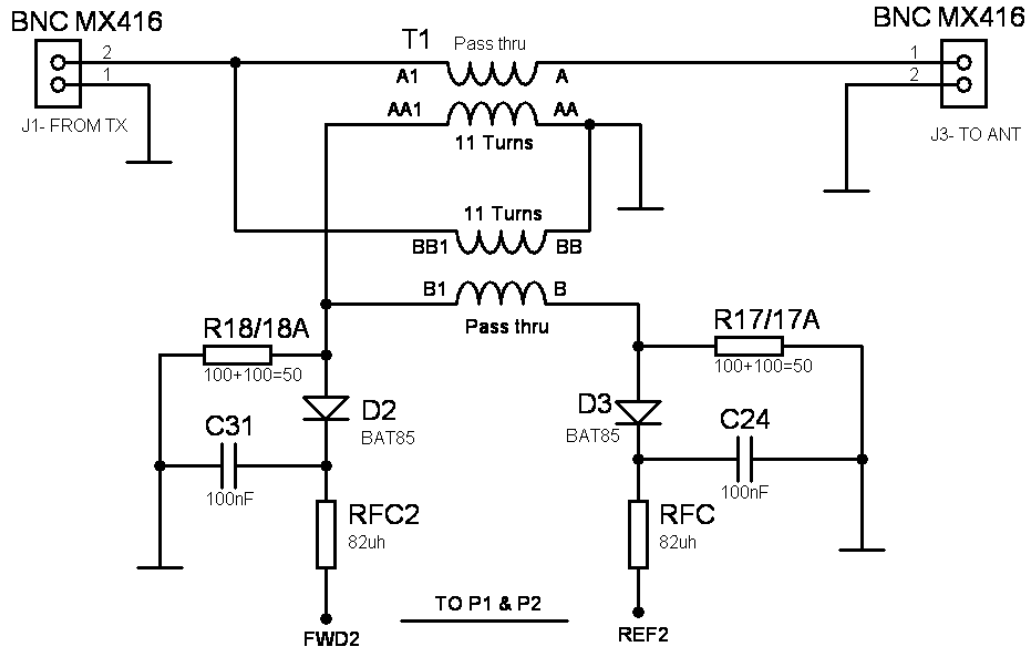
Front Panel Keyboard PCB Silk:



H1A is SIL8 connector and it mounts on Solder Side of keyboard PCB

Schematic Internal HF Bridge: Part 2

Fox Delta SWM3-QRP-HF-BRIDGE - Rev 1021



73s

Dinesh Gajjar

Revised on 30th Nov 2021

For more details, please visit Project Page: <http://www.foxdelta.com>