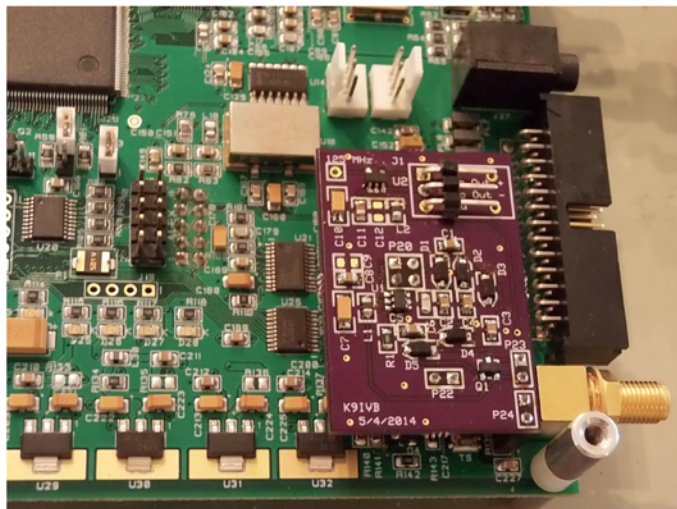
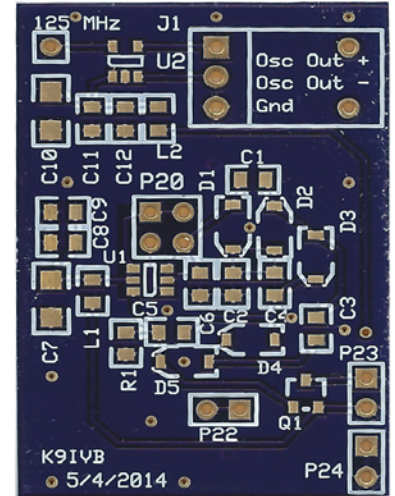
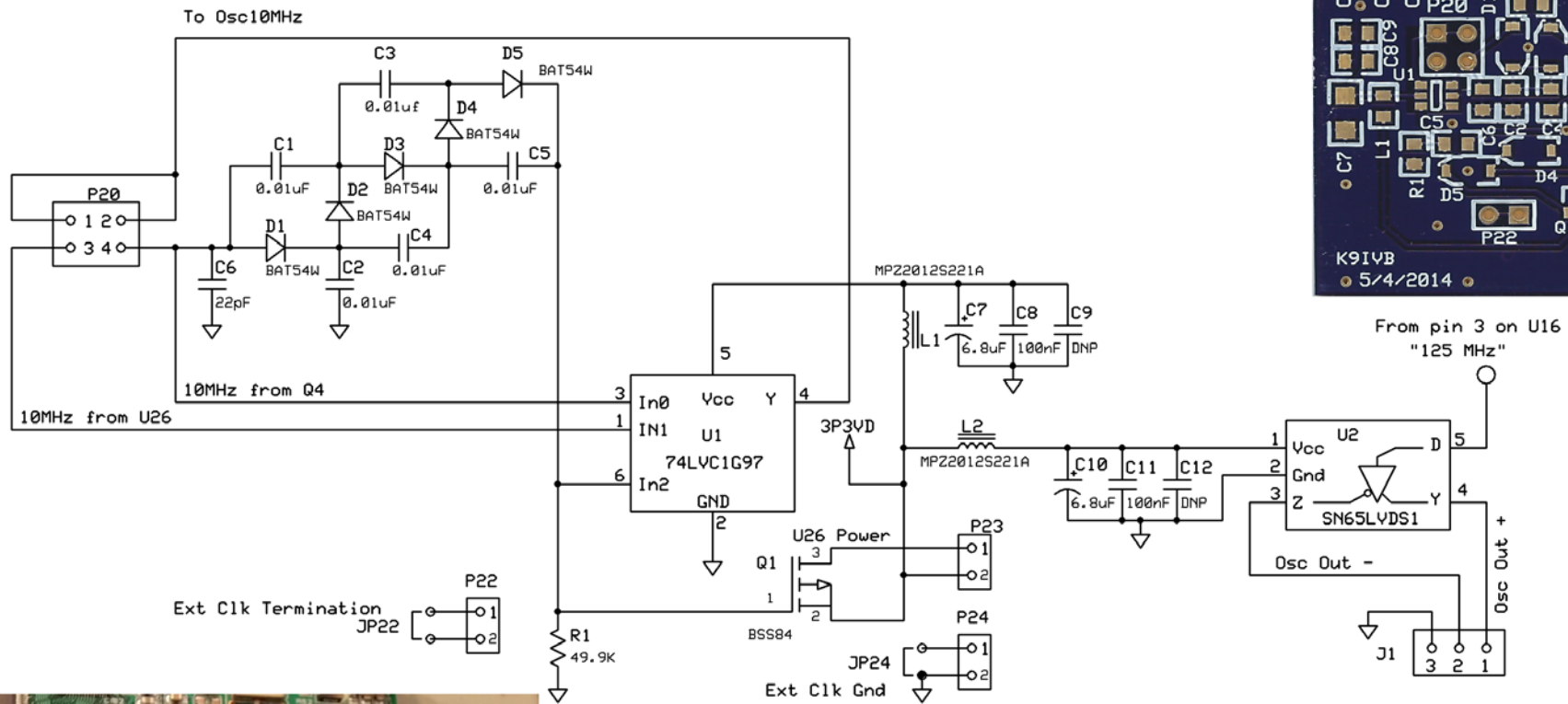


Autoswitch 10MHz Reference circuit by Mike KF4BQ



Hermes Add On Board		
AutoSw 10 MHz & 122 MHz Buffer		
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AutoSw 10 MHz & 122 MHz Buffer BOM

Rev 2

5/23/2014

Ref Des	Value	Description	Part Number	PAD	Mouser	Qty
C1, 2, 3, 4, 5	0.01uF	CAP CER 10000PF 100V X7R	GRM21BR72A103KA01L	[0805]	81-GRM21BR72A103K	7
C6	22pF	MLCC - 22pF 100volts C0G 5%	08051A220JAT2	[0805]	581-08051A220J	1
C7, 10	6.8uF	TANT6.80UF 20V 20%	T491A685M020AT	[1206]	80-T491A685M020	2
C8, 11	100nF	CAP CER 0.1UF 100V 10% X7R	C0805X104K1RACTU	[0805]	80-C0805X104K1R	2
C9, 12		Do not insert				0
D1, 2, 3, 4, 5	BAT54W	Schottky Diode 30Volt 200mA Single	BAT54W-E3-18	[SOD- 123]	78-BAT54W-E3-18	5
J1	3x1 Rt Ang	3P SINGLE ROW R/A	826631-3 or equal		571-826631-3	1
	alt	No connector & solder cable direct to PCB				
JP22, 24		Feature Shorted on PCB - cut to remove				0
L1, 2	MPZ2012S221A	FERRITE CHIP 220 OHM 3A	MPZ2012S221A	[0805]	810-MPZ2012S221A	2
P20	Plug 2x2	Use 2 of 1x2 below				0
P20a, P20b, P22, 23, 24	Plug 1x2	2P RECPT VERT HV-100 0.276" H	215297-2		571-215297-2	5
Preferred Alt	Cut /break apart	Header 16 CON STR BRDMNT SKT [8 dual connectors per strip]	929974-01-16-RK		517-929974-01-16-RK	1
Q1	BSS84	MOSFET P-CH Enhance 50V 130ma	BSS84	[SOT-23]	512-BSS84	1
R1	49.9K	TF 1/8watt 49.9Kohms 1% 100ppm	CRCW080549K9FKEA	[0805]	71-CRCW0805-49.9K- E3	1
U1	74LVC1G97	Mult Function Gate	SN74LVC1G97DBVR	[SOT-23- 6]	595- SN74LVC1G97DBVR	1
U2	SN65LVDS1	LVDS Buffer Line driver	SN65LVDS1DBVR	[SOT-23- 5]	595-SN65LVDS1DBVR	1