

Designed by: JTA Design		Ver: 01	Code:	Parts list: Rubidium frequency standard power supply	Original by: JTA 2012-05-01 Updated by:
ITEM	REFERENCE	QTY	CODE	DESCRIPTION	MANUFACTURER / SUPPLIER
4	C1 C20	2	ELFA: 65-758-49 FARNELL: 722236	CER CAPACITOR 10n 10% 50V X7R 0603	
2	C2-3 C21-22	4	ELFA: 65-752-29 FARNELL: 1462433	CER CAPACITOR 100p 5% 50V NP0/C0G 0603	
1	C4-5 C10-12 C44-56	18	FARNELL: 1288255	CER CAPACITOR 100n 10% 50V X7R 0603	
7	C6	1	FARNELL: 1865526	CER CAPACITOR 270n 10% 16V X7R 0603	
8	C7	1	FARNELL: 1828893	CER CAPACITOR 470n 10% 16V X7R 0603	
5	C8-9	2	FARNELL: 1288264	CER CAPACITOR 10µ 10V X7R 1206	
11	C13-14 C33-34	4	ELFA: 67-200-64	OSCON 100µ 20% 20V R5 D10	SANYO: 20SA100M
9	C15 C19 C36-37	4		PCB PLACE RESERVATION FOR 0603 CAPACITOR	
6	C16 C23-30 C35	10	FARNELL: 1463373	CER CAPACITOR 10µ 35V X5R 1210	TAIYO YUDEN: GMK325BJ106KN-T
3	C17-18 C31-32 C38	5	FARNELL: 1358552	CER CAPACITOR 100µ 20% 6.3V X5R/X7R 1206	
10	C39-40	2	ELFA: 67-229-87	TH EL. CAP 1000U 35V 20% 105C 12.5x25 R5	NICHICON: UHD1V102MHD SANYO: 35MV1000WX
26	L1	1	FARNELL: 1463520 ELFA: 58-101-14	POWER INDUCTOR 33µH IRMS 3.23A ISAT 6.22A	WÜRTH: 744771122 COOPER BUSSMAN: DR127-330-R
25	L2	1	FARNELL: 1463472 FARNELL: 1635930	SMD POWER INDUCTOR 100uH IRMS 2.2A ISAT 2.4A	WÜRTH: 74477020 COILTRONICS: DR127-101-R
27	L3-6	4	FARNELL: 1308793	CHOKER 600R @ 100MHz 2.5A 1206	
28	L7	1	FARNELL: 9526900	CHOKER 70R@100MHz 6A 1812	WÜRTH: 742792510 MURATA: BLM41PG600SN1B
30	N1	1	FARNELL: 1685535 MOUSER: 926-LM5642MH/NOPB DIGI-KEY: LM5642MH-ND	LM5642 DUAL SYNCH 200 kHz STEP-DOWN CONTROLLER TSSOP14	TI: LM5642MH/NOPB
29	N3-6	4	FARNELL: 8621543 DIGI-KEY: AD8091ARZ-ND	AD8091 HIGH SPEED OPAMP R-RO 110 MHZ SO8	ADI: AD8091ARZ
44	R1	1	ELFA: 60-449-03 FARNELL: 9238549	RESISTOR 3k3 1% 100PPM 50V 63mW 0603	
33	R2-3 R16-17	4	ELFA: 60-445-49 FARNELL: 9238360	RESISTOR 100R 1% 100PPM 50V 63mW 0603	
31	R4 R6 R18 R20	4	ELFA: 60-440-02 FARNELL: 1469739	SMD JUMPER 0603	
46	R5 R10 R19	3	ELFA: 60-596-55 FARNELL: 9238204	RESISTOR 4R7 1% 200PPM 50V 63mW 0603	
40	R7	1	ELFA: 60-448-53 FARNELL: 9330763	RESISTOR 2k0 1% 100PPM 50V 63mW 0603	
42	R8	1	ELFA: 60-448-79 FARNELL: 9330879	RESISTOR 2k4 1% 100PPM 50V 63mW 0603	
32	R9 R21	2	FARNELL: 1099909	RESISTOR 0R02 1% 100PPM 200V 0.5W 1206	WELWYN: LR1206-R020FI
39	R11	1	FARNELL: 9233652	RESISTOR 220k 1% 100PPM 50V 63mW 0603	
48	R12 R22 R27-28	4		PCB PLACE RESERVATION FOR 0603 RESISTOR	
34	R13 R29 R37-38 R45-46 R49	7	ELFA: 60-450-25 FARNELL: 9238603	RESISTOR 10k 1% 100PPM 50V 63mW 0603	

Designed by: JTA Design		Ver: 01	Code:	Parts list: Rubidium frequency standard power supply	Original by: JTA 2012-05-01 Updated by:
ITEM	REFERENCE	QTY	CODE	DESCRIPTION	MANUFACTURER / SUPPLIER
38	R14-15	2	ELFA: 60-448-46 FARNELL: 9238514	RESISTOR 1k8 1% 100PPM 50V 63mW 0603	
37	R23 R30-32 R39-44 R47	11	ELFA: 60-447-88 FARNELL: 1469740	RESISTOR 1k 1% 100PPM 50V 63mW 0603	
43	R24	1	FARNELL: 9238425	RESISTOR 330R 1% 100PPM 50V 63mW 0603	
47	R25	1	FARNELL: 9331468 ELFA: 60-597-49	RESISTOR 68k 1% 100PPM 50V 63mW 0603	
41	R26	1	ELFA: 60-448-61 FARNELL: 9238522	RESISTOR 2k2 1% 100PPM 50V 63mW 0603	
45	R33-36 R48	5	FARNELL: 1170658	RESISTOR 49R9 1% 100PPM 50V 63mW 0603	
35	R50	1	ELFA: 60-193-19 FARNELL: 1653073	RESISTOR 180R 1% 100PPM 200V 250mW 1206	
36	R51	1	ELFA: 60-455-04 FARNELL: 9238840	RESISTOR 1M 1% 100PPM 50V 63mW 0603	
21	V1 V6	2	FARNELL: 1858964 DIGI-KEY: SI4850EY-T1-E3CT-ND MOUSER: 781-SI4850EY-T1-E3	Si4850EY N-FET 40V 31mR SO8	VISHAY: Si4850EY-T1-G3
20	V2 V7	2	FARNELL: 1684057 DIGI-KEY: SI4840BDY-T1-GE3 MOUSER: SI4840BDY-T1-GE3	Si4840BDY N-FET 40V 12mR SO8	VISHAY: Si4840BDY-T1-G3
18	V3-4	2	ELFA: 70-306-87 FARNELL: 1056503	BAV70 DUAL COMMON CATHODE DIODE 100V 0.2A SOT23	NXP: BAV70 INFINEON: BAV70
16	V5 V8	2	FARNELL: 9100695 ELFA: 70-217-28	MBRS140T3 SCHOTTKY RECTIFIER 40V 1A SMB (DO-214AA)	ONSEMI: MBRS140T FAIRCHILD: MBRS140
23	V9	1	FARNELL: 1471054	FDS4675 P-FET 40V 13mR SO8	FAIRCHILD: FDS4675 FAIRCHILD: FDS4141
19	V10	1	FARNELL: 9844317	ZENER BZX84-C10 10V 300mW 5% SOT23	FAIRCHILD: BZX84C10
22	V11	1	FARNELL: 9846298	FDN304P P-FET 25V 52mR SOT-23	
17	V12-13	2	ELFA: 70-300-75 FARNELL: 9843612	DIODE DUAL BAV99 75V 215mA SOT23	
13	X1	1		CONNECTOR PHOENIX 2 PIN MKDSN 1,5/2-5,08	PHOENIX: 1729018
12	X2-6	5	FARNELL: 1248990 MOUSER: 523-132134	SMA CONNECTOR 50 OHM PCB VERTICAL	
14	X7	1	FARNELL: 3041475 DIGI-KEY: 277-1249-ND MOUSER: 651-1729144	CONNECTOR PHOENIX 4 PIN MKDSN 1,5/4-5,08	PHOENIX: 1729144
15	X8-9	2	FARNELL: 3041359	CONNECTOR PHOENIX 2 PIN MPT 0,5/2-2,54	PHOENIX: 1725656 WÜRTH: 691 210 910 002