

PARTS FOR PLL VXCO WA1MBA

VCXO PARTS

REFERENCE	Value	Q rqd	have	to order	Comments
R1	180				
R2	750				
R3	150				Modified
R4 *	10K				
R5 *	10K				
Total R4,5,15	10K				Total 10 K VCXO only
R6	820				Modified
R7	27K				
R8	27K				
R9	27K				
Total R7,8,9	27K				Total 27 K VCXO only
R10	330				
R11	18				
R12	300				
R13	1500				
R14	1K				
R15	10K				
R16	10				
C1	Var 2-10				
C2	10 NPO				
C3					There is NO C3
C4	470				
C5	470				
Total C4,5	470				Total 470 pF
C6	47				
C7	.0018				
C8	.1				
C9	.0018				
C10	.0018				
Total C7,9,10					Total .0018 uF
C11	.1				
C12	10				
Total C2,12	10				Total 10 pF (NPO)
D1	HP 5082				HP 5082-2835
D2	BB204				Var Cap Diode Pair
Q1	J310				J310 JFET
Q2	2N5179				2N5179
Y1	XTAL				XTAL
L1	T30-12				
L2	.33 uH				High SRF coil
T1	T9-1 X65				Minicircuits
RFC1	1 uH				High SRF choke
RFC2	18 uH				Choke
78L10Z	78L10Z				LDO 10 V
10 uF, 25V	10u, 25V				0.1 spacing, Tant

Misc					
Misc	TO-5				TO-5 Socket
Misc	PTC				PTC Resistive Thermistor

High Power Option

REFERENCE	Value	Q reqd	have	to order	Comments
MAV11	MAV11				MAV11 Minicikts MMIC
220 pF	220 pF				Block Cap
470 pF	470 pF				Block Cap
180 Ohm 1/2 W	180, 1/2W				Power Resistor
18 uH RFC	18 uH				Choke

PLL PARTS

REFERENCE	Value	Q rqd	have	to order	Comments
R16	62K				
R17	100K				
R18	51				
R19	100K				
R 17,19	100K				Total 100K
R20	10K				
R21	10K				
R21B	10K				there are 2 R21s
R22	10K				
Tot R20-22	10K				Total 10K
C13	.1				
C14	.001				
C15	.001				
Total C14,15	.001				Total .001
C16	.01				
C17	10u, 25V				
C18	10u 25V				
Total C17, 18, 24	10u, 25V				Total 10u, 25V
C19	.047				
C20	.047				
C21	.047				
C22	62				
C23	.047				
Total C19, 20, 21, 23	.047				Total .047
C24	10u				
U1	MC145158P2				MC145158P Newark
U2	MC12019P				MC12019P Newark
U3	LM358P				
U4	16F84				PIC Micro Digikey
U5	78L05				
Q3	2N5089				2N5089
Misc	Box				HH 1509B ??? BF?
Misc	BNC Con				
Misc	Feed-throughs				
Misc					18 pin Dip Socket