

## NUMA Technologies, Inc.

Engineering Parts List, Evaluation Board (Mini-Circuits Baluns), NT2903/4

11/30/00

Item	Ref. #	Qty.	Description	Part #	Mfg.
1	R1	1	Resistor, SMD, 30.1 ohm, 1%, 0603	MCR03F30R1	ROHM
2	R2	1	Resistor, SMD, 3K ohm, 5%, 0805	MCR10J302	ROHM
3	R3	1	Resistor, SMD, 5.6K ohm, 5%, 0805	MCR10J562	ROHM
4	R4	1	Resistor, SMD, 1.0M ohm, 5%, 0805	MCR10J105	ROHM
5*	R5	1	Resistor, SMD, 330K ohm, 5%, 0805	MCR10J334	ROHM
	R5	1	Resistor, SMD, 27K ohm, 5%, 0805	MCR10J273	ROHM
6	R6	1	Resistor, SMD, 1K ohm, 5%, 0805	MCR10J102	ROHM
7	R7,R8	2	Resistor, SMD, 22K ohm, 5%, 0805	MCR10J223	ROHM
8	R9, R11	2	Resistor, SMD, 1.21K ohm, 1%, 0805	MCR10F1211	ROHM
9	R10, R12	2	Resistor, SMD, 3.32K ohm, 1%, 0805	MCR10F3321	ROHM
10	R14	1	Resistor, SMD, .22 ohm, 1%, 0805	RL1220SR22F	TFT
11	R15	1	Resistor, SMD, 100K ohm, 5%, 0805	MCR10J104	ROHM
12	R16, R28, R34				
	R36	4	Resistor, SMD, 10K ohm, 5%, 0805	MCR10J103	ROHM
13	R17	1	Resistor, SMD, 140 ohm, 1%, 0805	MCR10F1400	ROHM
14	R18	1	Resistor, SMD, 121 ohm, 1%, 0805	MCR10F1210	ROHM
15	R19-R24	6	Resistor, SMD, 0.1 ohm, 1%, 0805	RL1220SR10F	TFT
16	R26	1	Resistor, SMD, 15K ohm, 5%, 0805	MCR10J153	ROHM
17	R27, R35	2	Resistor, SMD, 0 ohm, 0603	MCR03J000	ROHM
18	R29	1	Resistor, SMD, 47K ohm, 5%, 0805	MCR10J473	ROHM
19	R30	1	Trimmer, SMD, 50 ohm, 1-T, 4mm	ST-4B500	BCC
20	R33	1	Trimmer, SMD, 1.0K ohm, 1-T, 4mm	ST-4B102	BCC
21	R37	1	Resistor, SMD, 0 ohm, 0805	MCR10J000	ROHM
22	C2, C4	2	Capacitor, SMD, 0.5pF, 100V, 0805	08051A0R5CATMA	AVX
23	C5, C9, C24				
	C28, C55, C56	6	Capacitor, SMD, .1uF, 50V, 0805	0805B104K500NX	NOVACAP
24	C6, C12, C13,				
	C25	4	Capacitor, SMD, 22nF, 50V, 0805	0805B223K500N	NOVACAP
25	C11, C14, C15				
	C16, C27, C37	6	Capacitor, SMD, .33uF, 50V, 1206	1206Z334M500N	NOVACAP
26	C21, C57	2	Capacitor, SMD, 100pF, 50V, 0603	MCH185A101JK	ROHM
27	C22, C23, C39				
	C40, C60	5	Capacitor, SMD, 1nF, 50V, 0603	MCH185C102KK	ROHM
28	C26	1	Capacitor, SMD, 120pF, 100V, 0805	0805N121J101N	NOVACAP
29	C38, C41	2	Capacitor, SMD, .15uF, 100V, 1206	1206Z154K500N	NOVACAP
30	C30, C32	2	Capacitor, SMD, 680pF, 100V, 0805	0805N681J101N	NOVACAP
31	C31, C33	2	Capacitor, SMD, 1.8nF, 100V, 0805	0805N182J101N	NOVACAP
32	C1, C3, C29,				
	C34, C47-C52	10	Capacitor, SMD, 10nF, 50V, 0805	0805B103K500N	NOVACAP
33	C36, C42	2	Capacitor, SMD, 82pF, 100V, 0805	0805N820J101N	NOVACAP
34	C44	1	Cap, Trimmer, SMD, 1-20pF	2807S1R020-NHD4TAA	BCC
35	C45	1	Capacitor, TAN, SMD, 33uF, 7343	TPSD336K020R0200	AVX
36	C46	1	Capacitor, TAN, SMD, 10uF, 7343	TPSD106K035R0300	AVX

37	U1	1	OP Amp, Single-Supply, SOT-23-5	MAX4130EUK	MAXIM
38	U2	1	ChipCeiver, FM Transceiver, ISM	NT2904 (TQFP-48)	NUMA
39	U3	1	Regulator, LDO, Adjustable, 800ma	LT1117-CST (SOT-223)	LT
40	U4	1	Buffer, CMOS, Hex, Non-Inverting	CD4050BE (S0-16)	NATIONAL
41	L1	1	Inductor, 12nH, 0805, SMD	CIH21T12NJ	SAMSUNG
42	L2	1	Inductor, 8.2nH, 0805, SMD	CIH21T8N2J	SAMSUNG
43	L4, L5	2	Resistor, SMD, 0 ohm, 0603	MCR03J000	ROHM
44	L7, L8	2	Resistor, SMD, 0 ohm, 0603	MCR03J000	ROHM
45	Y1	1	Crystal, Quartz, 12MHz, SMD	MA-505-12.000M-C2	EPSON
46	D4	1	Diode, Varactor, 3-18pF, SOD-323	SMV1236-011	ALPHA
47	S1, S2	2	Connector, RF, SMA, End Launch	142-0701-801	EF JOHNSON
48	J1A	1	Header, Connector, 2-Pos.	MCV 1.5/2-G-3.81	PHOENIX
	J1B	1	Plug, Terminal Block, 2-Pos.	MCVW 1.5/2-ST-3.81	PHOENIX
49	J2	1	Header, 6-Pos, Double-Row, .100"	TSW-106-01-L-D	SAMTEC
50	J4, J7-J9, J10 J11-J17, J20	13	Header, 2-Pos, Single-Row, .100"	TSW-102-07-L-S	SAMTEC
51	J5, J18-J20	4	Header, 3-Pos, Single-Row, .100"	TSW-103-07-L-S	SAMTEC
52	J6	1	Header, 4-Pos, Single-Row, .100"	TSW-104-07-L-S	SAMTEC
53	J3	1	Test Point, 1-Pos, 0.025"	TP-105-01-00	COMP CORP
54	T1	1	Transformer, Wide-Band, RF, 4:1	JTX-4-10T	MINI-CIRCUIT
55	T2	1	Transformer, Wide-Band, RF, 2:1	JTX-2-10T	MINI-CIRCUIT
56	PCB1	1	Board, Circuit, Printed, FR-4, 0.062"	20317	DEH