

VT50LS PA-S7

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Advanced Microwave Products
 Verdi, NV 89439
 VT50LS Power Amplifier
 VT50LS PA-S7 BOM

Item	Reference Designator	P/N	Desc	Manufacturer	Qty
1	PCB1	VT50LS PA Rev-	VT50LS PA PCB Rev-	LANmark	1
2	R1,11	MCR03J150	Res, 0603, 15 ohms, 5%	Rohm	2
3	R2,3,8	MCR03J222	Res, 0603, 2.2k ohms, 5%	Rohm	3
4	R4,5,26,42	MCR03J471	Res, 0603, 470 ohms, 5%	Rohm	4
5	R7,12	MCR18J151	Res, 1206, 150 ohms, 5%, 1/4W	Rohm	2
6	R9,10	MCR03J360	Res, 0603, 36 ohms, 5%	Rohm	2
7	R13	MCR03J4R7	Res, 0603, 4.7 ohms, 5%	Rohm	1
8	R14-15	MCR03J102	Res, 0603, 1k ohms, 5%	Rohm	2
9	R16-17,36	MCR03J103	Res, 0603, 10k ohms, 5%	Rohm	3
10	R18,31	MCR03J104	Res, 0603, 100k ohms, 5%	Rohm	2
11	R23	MCR10J000	Res, 0805, 0 ohms, 5%, 1/8W	Rohm	1
12	R25	MCR03J301	Res, 0603, 300 ohms, 5%	Rohm	1
13	R27	MCR50J240	Res, 2010, 24 ohms, 5%, 1/2W	Rohm	1
14	R32,35,41	MCR03J470	Res, 0603, 47 ohms, 5%	Rohm	3
15	R34	G32BTB504M	Pot, 3mm, 500k Ohm, 20%, Tocos	Tocos	1
16	R37	MCR03J223	Res, 0603, 22k ohms, 5%	Rohm	1
17	R38-40	MCR03J820	Res, 0603, 82k ohms, 5%	Rohm	3
18	C1,2,10,11,16,18,20,23,24,27,29,33,39,40,44,51-54,X4,X7,X9	C0603C150J5GAC	Cap, 0603, Ceramic, 15 pF, 5%, 50V, NPO..	Kemet	22
19	C3,4,12,19,28,41,45,49,56	C0603C103M3RAC	Cap, 0603, Ceramic, 10 nF, 20%, 25V, X7R..	Kemet	9
20	C5-6,13,30,50	T491A106M016	Cap, A-Case, Tant, 10uF, 16V, 20%	Kemet	5
21	C7	600S1R0BT250XT	Cap, 0603, High-Q, 1.0pF, +/-0.1pF, 250V, NPO	ATC	1
22	C14-15,17,25-26,31,37,46,48	C0603C104M3RAC	Cap, 0603, Ceramic, 100 nF, 20%, 25V, X7R..	Kemet	9
23	C32,55	C0603C102M3RAC	Cap, 0603, Ceramic, 1nF, 20%, 25V, X7R..	Kemet	2
24	C35	600S0R6BT250XT	Cap, 0603, High-Q, 0.6pF, +/-0.1pF, 250V, NPO	ATC	1
25	C42-43	EMK107BJ105KA	Cap, 0603, Ceramic, 1 uF, 10%, 16V, X5R, Taiyo Yuden	Taiyo Yuden	2
26	C47	EMK212BJ475M	Cap, 0805, Ceramic, 4.7 uF, 10%, 16V, X5R, Taiyo Yuden	Taiyo Yuden	1
27	X6	600S2R4BT250XT	Cap, 0603, High-Q, 2.4pF, +/-0.1pF, 250V, NPO	ATC	1
28	X5	600S2R7BT250XT	Cap, 0603, High-Q, 2.4pF, +/-0.1pF, 250V, NPO	ATC	1
29	X12	600S0R3BT250XT	Cap, 0603, High-Q, 0.3pF, +/-0.1pF	ATC	1
30	X13	600S0R5BT250XT	Cap, 0603, High-Q, 0.5 pF, +/- 0.1 pF, 25v	ATC	1
31	CR1	GC15009-450A	Varactor, 5pF, 13:1, 450A, MicroSemi....	MicroSemi	1
32	L1	ELJRE10JF2	Ind, 0603, 100nH, 5%	Panasonic	1
33	L2,6	ELJRE22NJF2	Ind, 0603, 22nH, 5%	Panasonic	2
34	L4-5,8	ELJRE6N8DF2	Ind, 0603, 6.8nH, 5%	Panasonic	3
35	L3	ELJRE3N3DF2	Ind, 0603, 3.3nH, +/-0.3nH	Panasonic	1
36	L7	ELJRE4N7DF2	Ind, 0603, 4.7nH, 5%	Panasonic	1
37	L9	0603LS-103XJL	Ind, 0603, 10uH, 5%, Coilcraft	Coilcraft	1
38	L10	1606-10J	Ind, 1606, 12.55nH, 5%, Coilcraft	Coilcraft	1
39	X2	ELJRE1N5DF2	Ind, 0603, 1.5 nH, 5%	Panasonic	1
40	FB1	BLM21P331SN1B	Ferrite Bead, 0805, 330 Ohm, 1.5A, Murata	Murata	1
41	FL1	LFCN-2750	Filter, 2.75 GHz, Low Pass, 7-pole, 1206, Mini-Circuits	MiniCircuits	1
42	Q1	AT-42035	Transistor, NPN, RF, 6 GHz, Micro-X, Agilent..	Agilent	1
43	Q2	ECG001B	Transistor, +12 dbm Gain Block, SOT-89, WJ..	WJ	1
44	Q3,6	MMBT2222	Transistor, NPN, GP, SOT-23, Fairchild..	Fairchild	2
45	Q4	ECG015B-G	Transistor, +24 dBm Gain Block, SOT-89, WJ..	WJ	1
46	Q5	EPA960CR-CPO83	Transistor, GaAsFET, +38 dBm, CP083, Excelics....	Excelics	1
47	U1	MIC5213-5.0BC5	IC, Regulator, LDO, 5.0V, 80mA, SC-70, Micrel..	Micrel	1
48	U3	MIC1555BM5	IC, 555 Timer, SC-70, Micrel	Micrel	1
49	U4	MIC842LBC5	IC, Comparator, 1.25V Ref, SC-70, Micrel	Micrel	1
50	U5	LTC5531ES6	IC, Power Detector, 7GHz, TSOT-23-6, Linear Tech	Linear Tech	1
51	U6	MAX840ISA	IC, Neg. Generator, -9V, SOIC-8, MAXIM..	MAXIM	1
52	IS1	RLEI-2400-2500M-5mm-1WL	Isolator, 2.4-2.5 GHz Lumped Element, 5mm Sq, 5W FWD, 1W REV	Raditek	1
53	J1,2	A-1JA-CR	Connector, Coax, RF, 3mm SMT, Amphenol	Amphenol	2
54	CP1	1P620	Coupler, 20 dB Directional, 2.3-2.7 GHz, 0.25x0.20, Anaren	Anaren	1

** OMIT CR2,C8-9,C36,R6,R19-22,R24,R28-30,R33,U2

** TBD C21,C22,C34,C38,X1,X3,X8,X10,X11 (not greater than 0.5pF cap or less than 8.2nH ind)