

**ARCHIVES COPY**

# Operating and Service Manual

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MODEL

50W1000

PART NUMBER

1002922-501

SERIAL NUMBER

12333

FORM 144 REV 1087



Souderton, PA 18964-9990 USA

TEL 215-723-8181 TWX 510-661-6094 FAX 215-723-5686

DESCRIPTIVE INFORMATION	SUPPORT DOCUMENTS
FREQUENCY 1-1000 MHz	TEST DATA SHEET 1000 892
POWER OUT 50 WATTS	TEST PROCEDURE 1002015
PRIMARY POWER 115/230 VAC, 50/60HZ	ENVELOPE DWG
COOLING INTERNAL FANS	SALES DATA SHEET INFORMAL-PRINTED
PACKAGE 19" RACK 22 3/4" PANEL	MANUAL CLASS I
OPTIONS INCLUDED	REMARKS

MATERIAL PULL INFORMATION											MANUAL INFO						
ASSY LEVEL						REF	DESCRIPTION	QTY	ASSEMBLY NUMBER	S	P	L	A	S	C	SCHEMATIC	
1	2	3	4	5	6	DESIG										NUMBER	S
X							RACK ASSY, RF AMP	1	1002925-501	X			X		1001671	B	
X							CABLE KIT, RF AMP	1	1002926-501	X					1001671	B	
X							AMPLIFIER ASSY, FINAL	1	1002927-501	X							
	X						CABLE KIT, AMPL ASSY	1	1002928-501	X							
	X						COVER/COMBUR KIT	1	1002929-501	X							
		X					RF ASSY, FINAL	2	1002930-501	X			X		1001212	B	
			X				COMBINER KIT	1	1002931-501	X							
				X			RF ASSY	1	1002933-501	X			X		1001212	B	
					X		REGULATOR ASSY	4	1002823-504	X			X		1001098	B	
						X	RF BOARD ASSY	4	1002838-506	X			X		1001779	B	
						X	RF ASSY, COMP KIT	1	1002839-502	X					1001779	B	
						X	PWB ASSY, RF	1	1002840-502	X							
	X						RF ASSY, FINAL	2	1002930-502	X					1001212	B	
		X					COMBINER KIT	1	1002931-502	X							
			X				RF ASSY	1	1002933-501	X					1001212	B	
				X			REGULATOR ASSY	4	1002823-504	X					1001098	B	
					X		RF BOARD ASSY	4	1002838-506	X					1001779	B	
						X	RF ASSY, COMPONENT KIT	1	1002839-502	X					1001779	B	
						X	PWB ASSY, RF	1	1002840-502	X							
	X						POWER SUPPLY ASSY	1	1002934-501	X			X		1001998	C	
		X					HARNESS ASSY, P.S.	1	1002935-501	X					1001998	C	
			X				PANEL ASSY, CONTROL	1	1002938-501	X					1001998	C	
				X			PANEL ASSY, CONN	1	1002939-501	X					1001998	C	
					X		HOUSING KIT	1	1002941-501	X							
						X	PLATE ASSY, BASE	1	1002942-501	X							
						X	PANEL ASSY, REAR	1	1002940-501	X					1001998	C	
X							AMPLIFIER ASSY, DRVR	1	1002943-501	X			X		1001674	B	
	X						POWER SUPPLY ASSY	1	1002827-502	X			X		1001208	C	
		X					PLATE ASSY, BASE	1	1002829-502	X					1001208		
			X				PROTECTION LIFE ASSY	1	1002465-502	X			X		1001132	B	
				X			PWB ASSY	1	1002824-502	X					1001132	B	
					X		REGULATOR ASSY	1	1002835-501	X							
						X	PANEL ASSY, REAR	1	1002830-502	X					1001208	C	

FORM 109 REV0584



**AMPLIFIER RESEARCH**

DATE	R	DATE	R	DATE	R
1987	-				
3 NOV 89	A				

**MASTER LIST**





**AMPLIFIER  
RESEARCH**

MODEL NO. 50W1000  
 SERIAL NO. 12333  
 TESTED BY JAV  
 DATE 9/18/92

TEST DATA SHEET

FREQ (MHz)	POWER OUTPUT @ 1dB COMPRESSION (WATTS)	POWER OUTPUT SATURATED (WATTS) @ * dBm INPUT *
.1	—	—
.2	—	—
.5	—	—
1	> 75	75 -1 dBm
5	> 86	86 -1 dBm
10	> 105	105 -1 dBm
50	> 147	147 -1 dBm
100	> 105	105 -1 dBm
200	> 132	132 -1 dBm
300	79	105 0 dBm
400	44	61 0 dBm
500	47	62 0 dBm
600	47	67 0 dBm
700	51	72 0 dBm
800	60	86 0 dBm
900	65	78 0 dBm
1000	58	86 0 dBm

GAIN 47 dB @ 556 WATTS OUTPUT @ 500MHz

FLATNESS ± 2.0 dB  
 OPEN TEST ✓OK  
 SHORT TEST ✓OK  
 STABILITY ✓OK

DISTORTION > -20dBc @ 50WATTS  
 INPUT VSWR 2.0 : 1.0  
 OUTPUT VSWR —  
 REMOTE CONTROL OPERATION N/A (✓)