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**AMP45-990/2**  
**WIDEBAND LINEAR AMPLIFIER**  
**45 MHz – 1000 MHz**

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The new linear amplifier for UHF band is excellent design made for special applications, lab testing, digital and analog RF and TV applications. This amplifier works in wideband frequency range from 45 MHz- 1000 MHz It requires 12 VDC / 1.2 A. The minimum driving input is 1 mW; absolute maximum RF input is 50 mW. Rated RF power is over 2 W. It comes with BNC input / output connectors. Excellent for special Military wideban applications.

Technical Specifications	
Frequency:	45-1000 MHz
Gain:	26 dBi
DC power	9-12V
Current consumption:	1.1 A max
Frequency:	40 MHz- 1 GHz
Impedance: input-output	50 ohms
Max. input power	50 mW
VSWR:	< 1.5:1 avg.
Connectors:	SMA
Weight:	500 grams
Size:	6" X 4" X 2"
Operating temperature:	-40 ° C to 85 ° C
RoHS compliant:	Yes

## TEST RESULTS

FREQUENCY	POWER INPUT 1 (dBm)	POWER OUTPUT 1	POWER INPUT 2 (dBm)	POWER OUTPUT 2	POWER INPUT 3 (dBm)	POWER OUTPUT 3
45 MHz	0	350 mW	3.00	560 mW	10.00	1.45 W
50 MHz	0	450 mW	3.00	800 mW	10.00	1.65W
60 MHz	0	850 mW	3.00	1.35 mW	10.00	1.85 W
70 MHz	0	1.35 W	3.00	1.85 W	10.00	2.20 W
80 MHz	0	1.90 W	3.00	1.99 W	10.00	2.45 W
90 MHz	0	1.95 W	3.00	2.00 W	10.00	2.46W
100 MHz	0	2.00 W	3.00	3.00 W	10.00	2.44W
145 MHz	0	1.35 W	3.00	2.65 W	10.00	3.50 W
200 MHz	0	1.25W	3.00	2.29 W	10.00	3.88 W
250 MHz	0	1.12 W	3.00	2.25 W	10.00	3.30 W
300 MHz	0	885 mW	3.00	1.90 W	10.00	2.89 W
400 MHz	0	750 mW	3.00	1.60 W	10.00	2.45 W
500 MHz	0	550 mW	3.00	995 mW	10.00	1.89 W
600 MHz	0	350 mW	3.00	750 mW	10.00	1.45 W
700 MHz	0	425 mW	3.00	950 mW	10.00	1.35 W
800 MHz	0	365 mW	3.00	850 mW	10.00	1.25 W
860 MHz	0	500 mW	3.00	995 mW	10.00	1.22 W
900 MHz	0	275 mW	3.00	750 mW	10.00	990 mW
1.00 GHz	0	125 mW	3.00	350 mW	10.00	925 mW