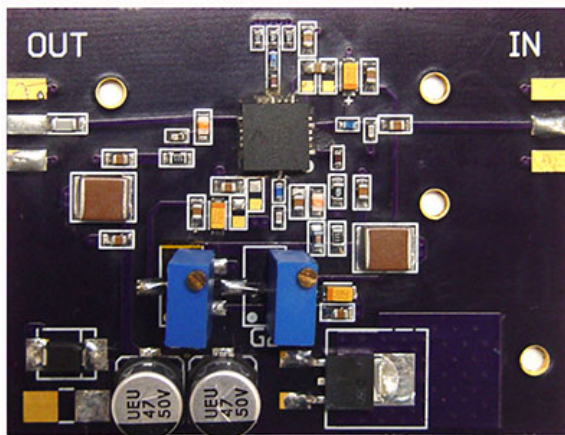


# AMP10-100 OB WIDEBAND LINEAR AMPLIFIER 10 MHz – 1000 MHz



The new linear amplifier for UHF band based on Freescale IC is an excellent design made for special applications, lab testing, digital and analog RF and TV applications. Amplifier model AMP-10-100 covers entire band VHF-UHF from 10 MHz- 1 GHz. This board requires 15-24 VDC / 1.2 A. The minimum driving input is 10 mW; required RF input is 25- 50 mW. Rated output RF power is 15 W max.

Dimensions: 2.76" X 2.0"

Photo shows prototype only, the final may look different.

Technical Specifications	
Frequency:	10-1000 MHz
Gain:	28 dBi
DC power	15V-24V
Current consumption:	1.2 A max
Frequency:	10 MHz- 1 GHz
Impedance: input-output	50 ohms
Max. input power	50 mW
VSWR:	< 1.5:1 avg.
Connectors:	SMA
Weight:	6 grams
Size::	2.76" X 2.0"
Operating temperature:	-40 ° C to 85 ° C
RoHS compliant:	Yes

Frequency range	10..900 MHz
Input power for P1dB	typ. +3 dBm
Maximum input power	+23 dBm
Output power P1dB	min. 37.8 dBm (CW) (50 ... 500 MHz)
	min. 36 dBm (CW) (500 ... 900 MHz)
Output power P1dB	min. 6 W (CW) (50 ... 500 MHz)
	min. 4 W (CW) (500 ... 900 MHz)
Output power P3dB	min. 39 dBm (CW) (50 ... 500 MHz)
	min. 37.8 dBm (CW) (500 ... 900 MHz)
Output power P3dB	min. 8 W (CW) (50 ... 500 MHz)
	min. 6 W (CW) (500 ... 900 MHz)
Output power COFDM (1)	min. 30 dBm
	min 1W
Gain (small signal)	min. 31.5 dB
Gain flatness (small signal)	typ. +/- 2.5 dB
Harmonic rejection	min. 20 dB @ 37 dBm
IM3 (2)	typ. 30 dBc, min. 22 dBc @ 37 dBm PEP
Efficiency	min. 20 % @ 37 dBm (CW)
Input return loss (S11)	min. 13 dB
Supply voltage	+28 V DC
Quiescent current	typ. 700 mA
Current consumption	max. 1.2 A
Operating case temp. range	-20 ... +55 °C
VSWR of load	max. 1.8 : 1
Input connector / impedance	SMA-female / 50 ohms
Output connector / impedance	SMA-female, 50 ohms
PC Board	2.76" X 2.0"

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