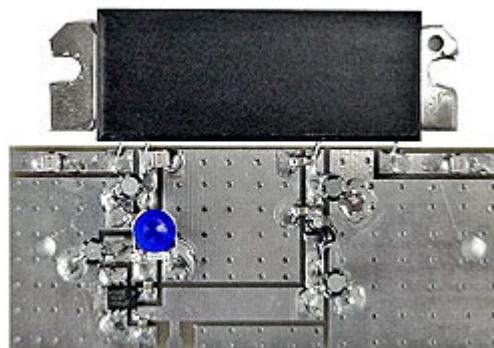




AMP-5080

50 MHz LINEAR AMPLIFIER 30 W IN AB CLASS (15 W IN A CLASS) WITH ADJUSTABLE POWER OUTPUT

This is a high quality professional 30 W TV linear amplifier that requires minimum driving input of 25 m W for 30 W RF output power / 12.6 V DC. It works in 50 MHz- 80 MHz and doesn't require any tuning or adjusting. Power supply is 12 V - 16 V / 5 A. Gain is 26 dB. Input / Output 50 ohms impedance. It is excellent for low power TV stages in VHF-L band (I). The power output is adjustable from 0-30 W by potentiometer on the board. Heat sink is not included. This amplifier is excellent for TV applications in A class with maximum 15 W RF power in linear class.



Board size: 2.5" X 3".

Technical Specifications	
BATTERY POWER	12 V-17 V
RF POWER	30 W (15 W IN A CLASS)
CURRENT CONSUMPTION	5 A
RF IN/OUT	50 ohms
INPUT POWER	5 mW- 10 mW
FREQ. RANGE:	50-80 MHz
HIGH GAIN	26 dB / 60 MHz
SIZE:	2.5" X 3"
OPERATION: WIDEBAND OPERATION	WIDEBAND
CLASS	LINEAR AB/A
POWER OUT	ADJUSTABLE

Typical Performance Data					
(MHz) FREQUENCY	10V	GAIN (dB) 12V	(:1) VSWR IN 12V	(:1) 12V VSWR OUT	(dBm) 12V Pout at 1dB Comp.
50	26	27	1.41	2.24	25
60	25.8	26.5	1.18	2.22	24.5
70	26	27	1.12	2.22	25.5
80	25	26	1.09	2.30	24.5
90	24.5	25	1.19	2.23	24

WARNING: THIS AMPLIFIER MUST BE MOUNTED ON A LARGE HEATSINK, PLEASE FIRST USE A BASE (INCLUDED BEFORE MOUNTED ON A HEATSINK. RF MODULE MUST BE WELL CONNECTED WITH TWO SCREWS TO THE ALUMINUM BASE + 2 SCREWS FOR THE PC BOARD. USE A THERMAL COMPOUND FOR THE MODULE BASE (PUT SILICON GREASE IN THE GAP OF THE MODULE). THE MODULE AND BOARD MUST BE WELL GROUNDED! RED WIRE IS POSITIVE, BLACK IS NEGATIVE. PLEASE MAKE SURE THAT YOUR POWER SUPPLY CAN HANDLE 6 A/12 V.