

30W CW AM, SUTTABLE SSB
SAMA AS ROOMS

This is for one very linear Class A RF amplifier which I have removed from a new Spectrian high power Amp where it was used for driver for the main PA boards. This auction does include the 24v 80ma bias supply as suggested below at no cost to you. This amplifier has been selected, setup and tested for an output power of 30W from 2.3GHz to 2.35GHz with a linear gain of 35dB. Great amplifier for CW, AM, FM, ATV or SSB use from 2300MHz to 2350 @ 30W and to 2450MHz @ 25W. Input power for 30W output is typically 10mW or less! I have attached a plot of power vs frequency. The upper left reference tick marks the 100W (50dBm) point with 5dBm / vertical division. Frequency is 50MHz / division. Input drive for this example was 7.0dBm. Power requirement is 13-14V @ 10A and + 24 to +28v bias @ 50Ma. This bias is used for the gate voltage circuit on the power control FET. I do supply a miniature regulated DC-DC converter with this auction which takes 9-18v input with an output of 24v @ 125ma for generating this bias voltage. There is a logic level enable pin which requires grounding to enable power to this amplifier and can be used for a PTT/KEY control. The connector also has a direct temperature output pin with the function 10.0mV/degree F which measures the board temperature close to the 30W RF output GaAs FET (NEC S2527-30). Note that the output of this amplifier is protected by an internal 125W isolator! Here are the pin functions for the DC bias connector: Pins 1,2,3,4 are all +12 to 13Vdc @ 7.5 or so amps. Pins 5,6,7,8,10 are all ground. Pins 12,13 are N.C. Pin 11 is Logic level Low enable, normally floats high. This turns on the +12v to the internal transistors. Pin 14 is + 26V bias supply input @ 50Ma. Pin 9 indicates temperature = 10mV/degree F. This board comes mounted on a 1/4 inch thick aluminum heat spreader which has 6 mounting holes for mounting to a heat-sink. I am also suppling the 2 MCX .086 hard-line sections as well as the mating bias connector as shown. You will find it very easy to remove one of the MCX connectors from one end of these and replace it with a SMA .086 hard-line connector. Board dimensions are 6.5 x 4 inches. (I also have some of the complete 180W Spectian amplifiers available and will start a fixed price auction for you by request. Please call (407) 767-5119 to request an auction if not currently on auction.)

Florida buyers must add 7% (or actual amount for your county) sales tax or mail me a signed photocopy of your Florida Resale Certificate with your payment! I do combine auction winnings when ever possible to save buyers money. I do ask that buyers help keep track of any auction shipments they want to combine and email me for a total when they are ready. Fixed Priority S&H quoted prices are for 50 USA states. International Bidders pay actual S&H. Good luck bidding! KI4NPV 407-767-5119

30W
 1000 kHz
 SEP 2000
 W 6PQL
 JACK
 CMT
 557A
 BATTERIES
 FOR DISPLA

COAX (RUMS)
 MITE KIT OR
 (order
 RUMS
 + SPOONER
 TEWLER
 BOX W/ROSA
 H2700
 OARAYS
 dell munks
 RAY D.

output DRIVER
 7 dBm

13.8V at 10 AMPS

From 30W P (1/2R)
 35mW
 +16 dBm