



Model 70-9B 70 cm, 50 dB, 25 Watt RF LINEAR AMPLIFIER

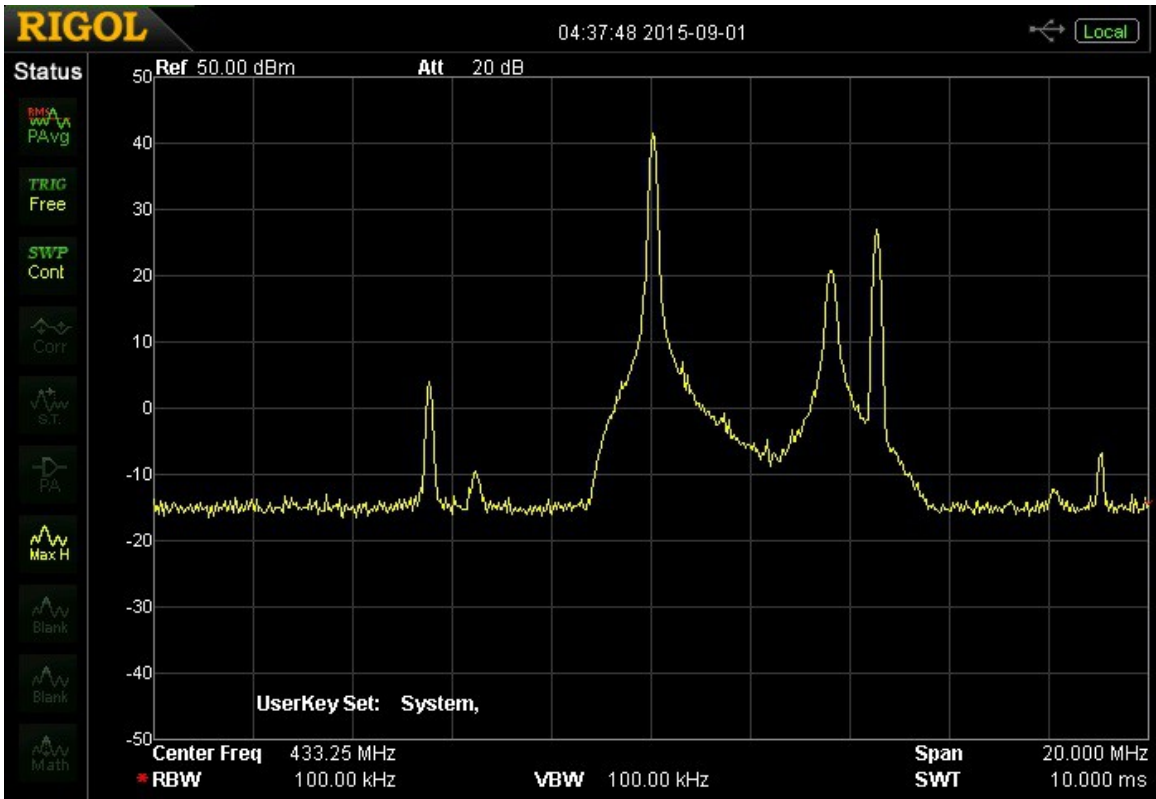


The KH6HTV-VIDEO Model 70-9B, RF Linear Amplifier is for use in the amateur radio 70cm band. It can be used to produce a 60 Watt FM signal or 25 Watt (pep), analog, TV signal. It can also produce a 10 Watt (avg), high-definition (1080p), digital TV signal. The rf power output can be lowered -5dB or -10dB for reduced DC current draw with the front panel rotary switch

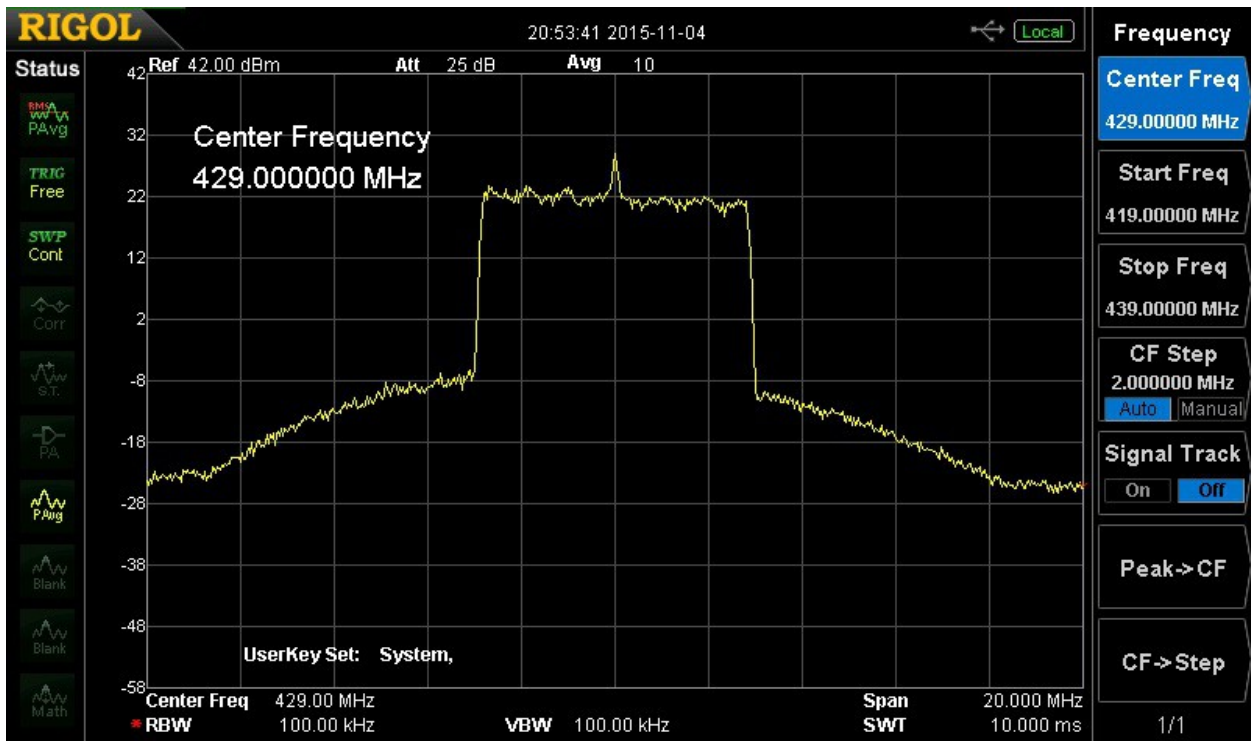
| PARAMETER | Typical Performance | Notes |
|------------------------------------|---------------------------------------------------|----------------------------------------------------|
| Output Power (analog TV) | 25 Watts PEP (+44 dBm) also 8 Watt or 2.5 Watt | peak power on sync tips adjustable in 5dB steps |
| Output Power (Digital TV) | +40dBm, +35dBm or +30dBm | avg. power |
| Output Power (FM, CW) | 60 Watts, typical | saturated output |
| Output Power vs. Supply Voltage | +44 dBm @ 12 - 13.8 Vdc +43 dBm @ 10 Vdc | analog VUSB-TV |
| RF Power Amplifier Gain | 50 dB, nominal | |
| Amplifier Gain Flatness | ± 2 dB | 420 - 450 MHz |
| Amplifier Max Input Power | 50 mW, +17 dBm | |
| LSB Rejection (analog VUSB) | better than -20dB | LSB/USB ratio - see photo |
| Spectrum Regrowth (Digital TV) | -30 dB at +40dBm avg | see photo |
| Harmonics | > -65 dBc typical | |
| Duty Cycle | 100 % | heat sink & cooling fan included |
| DC Supply Voltage | 13.8 Vdc | 10 to 15 Vdc |
| DC Current @ 13.8 Vdc | 10, 3 or 2 Amps | 10 W / 3 W / 1W (DTV) |
| Control - Rotary Switch | OFF - HI - MED - LOW | rf power adjustable in 5 dB steps |
| RF Connectors | SMA input & N output | |
| Dimensions & Weight | 5.5" x 4.5" x 5.0" | 2 lbs |
| Accessories Included | instruction manual & test report | |

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NOTICE: *This linear amplifier is not FCC type accepted. Therefore, the use of this amplifier is only legal in the USA, amateur radio, 70 cm band (420 - 450 MHz). Owners and operators of this amplifier must be licensed amateur radio operators.*



+44 dBm (25Wpep) VUSB-TV Spectrum, 10dB/div & 2 MHz/div



+40dBm (10 Watts avg), DVB-T Spectrum, 10dB/div & 2 MHz/div
Measured with Rigol DSA-815 Spectrum Analyzer