



## TECHNICAL INFORMATION

AVX-20/UHF is a Broadcast Power Amplifier designed for both digital and analog applications. The unit is the state of the art in terms of easy assembly, reliability and performances. The complete unit can assure the compliance to all relevant international standards.



- ◆ A class Power Amplifier
- ◆ 20 Wps Out
- ◆ **Requires only 25 mW input**
- ◆ 4 Wrms Out DVB-T
- ◆ DTV (8 VSB): 10 Wrms
- ◆ Broadband (470-560 MHz)
- ◆ Easy maintenance
- ◆ Strong mechanical structure

## TECHNICAL SPECIFICATIONS

### Electrical Data

Voltage Supply	12 V DC (External AC power supply)
Power Consumption	190 W max
Current Consumption	5 A max @ 12 V
Operating Temperature	0 to +45 °C
Humidity	Up to 90% (non condensing)
Gain	9.5 dB nom. ±2dB
Power Out ( 1dB compression)	Min. 20 W (Typ. 25 W)
Input Return Loss	Min. -16dB (Typ. -20dB)
Output Return Loss	Min. -18dB (Typ. -20dB)
Load Mismatch (CW 30W F0 860MHz VSWR=2:1)	No degradation
P <sub>out</sub> Common Amplif.	20 W Ps IMD < -46dB
P <sub>out</sub> DVB-T	10 Wrms shoulder < -36dBc (with precorrection)
DTV (8 VSB)	4 Wrms
P <sub>out</sub> PEP	25 W IMD < -27 dBc
Power Input	25 mW

**AVX-20/UHF**  
**20 W PROFESSIONAL**  
**TV UHF LINEAR AMPLIFIER**

---

**Mechanical data and Interfaces**

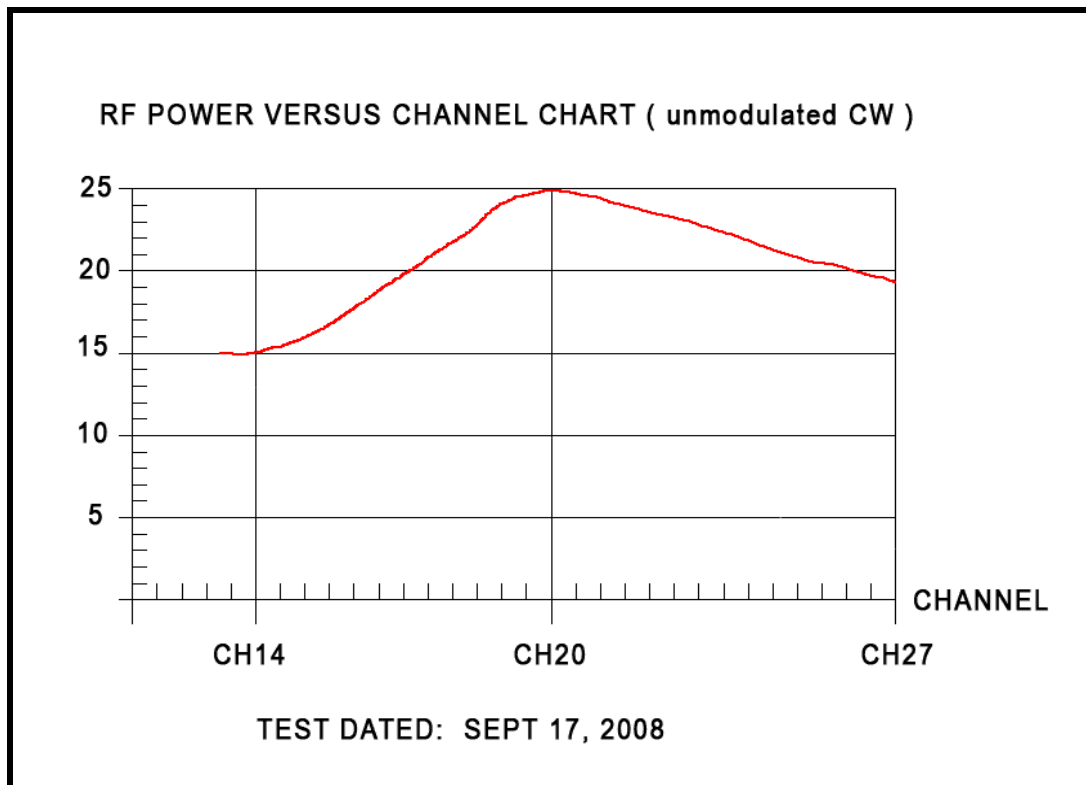
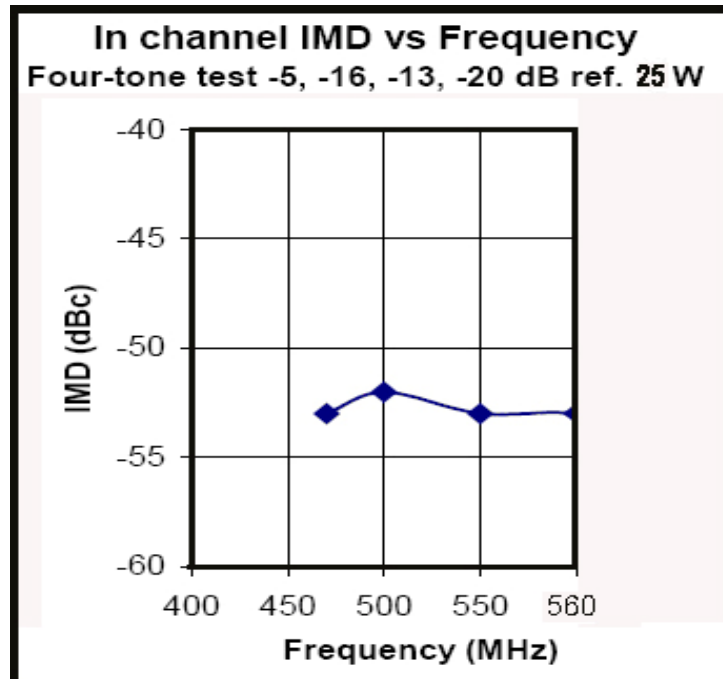
<b>Dimensions</b>	19" 3HU std 400mm depth
<b>Weight</b>	7 lbs
<b>RF in</b>	BNC connector rear panel
<b>RF out</b>	N connector rear panel
<b>RF mon</b>	N/A
<b>RS 232</b>	N/A
<b>RS 485</b>	N/A

**Block Diagram**

# AVX-20/UHF

## 20 W PROFESSIONAL

### TV UHF LINEAR AMPLIFIER

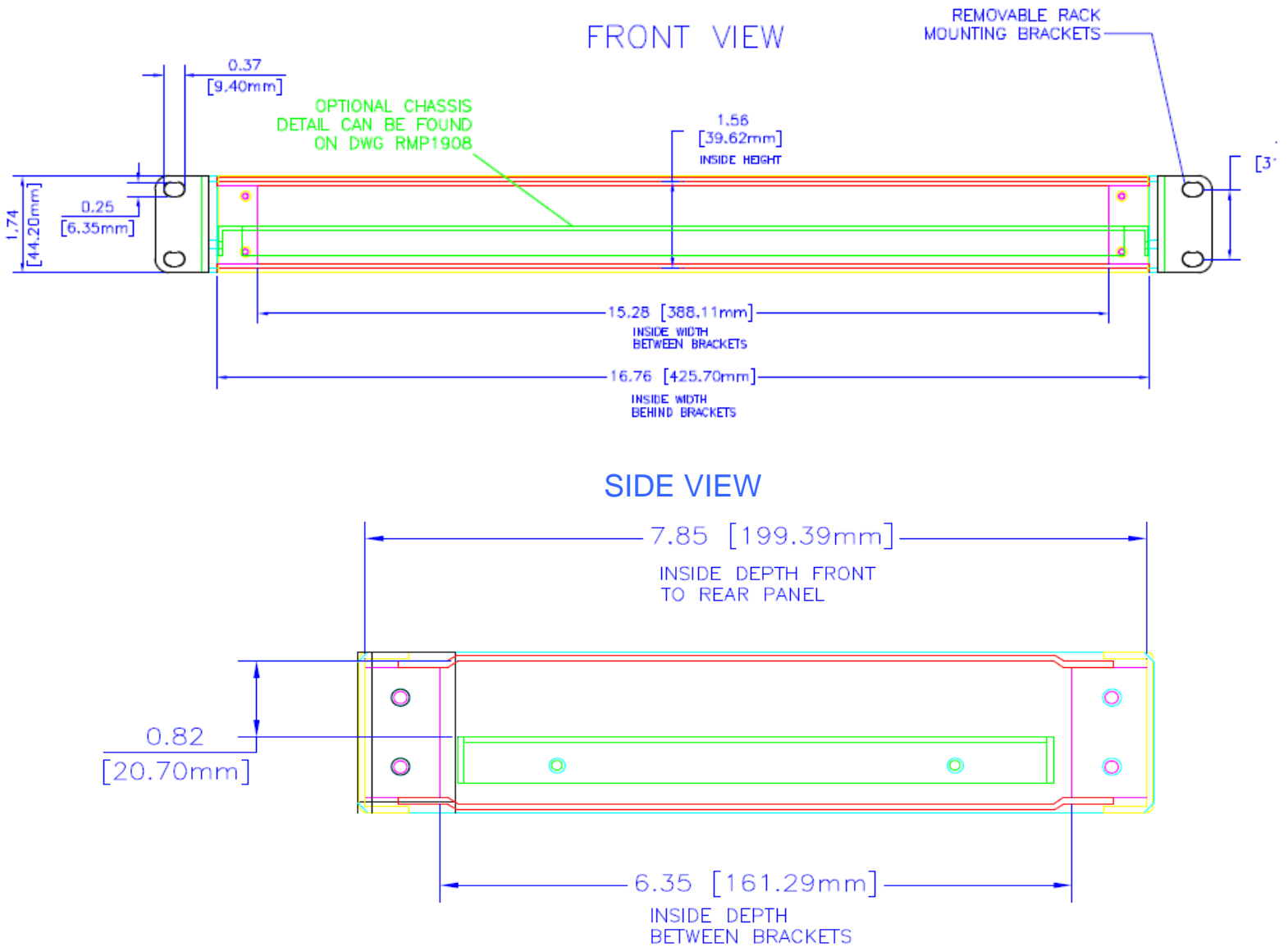


# AVX-20/UHF

## 20 W PROFESSIONAL TV UHF LINEAR AMPLIFIER



### Mechanical Drawings



# AVX-20/UHF 20 W PROFESSIONAL TV UHF LINEAR AMPLIFIER

---

TOP VIEW

