



Low Power TV Amplifiers

MAIN CHARACTERISTICS:

- LDMOS Technology for UHF Versions
- Forced-air Cooling System
- Analog and Digital Signal Input
- High Efficiency
- Remote Control wired and serial (RS232 or RS485)
- All voltages and currents available on display
- Output Filter included

The amplifiers in 'TV Low Power amplifiers' series are designed to be used as driver stages for amplifiers of higher power or for directly powering antenna systems.

Thanks to the excellent linearity of the amplifiers, achieved with the use of the state-of-the-art LDMOS (UHF) and MOSFET (VHF) technology, these equipment allow excellent performance both with analog and digital TV signals. The temperature of the amplifiers is guaranteed by a forced air cooling system.

Efficiency is enhanced by the use of switching-mode power supplies. In order to provide attenuation of out-of-band spurious the output filter is always included.

A microprocessor monitors and controls the currents and voltages of the power supply together with

the measure of RF output power and the temperature of the equipment.

A multifunction display makes it possible to verify all the operating parameters of the unit.

The amplifiers in the series are remotable by wired telemetry connector or by serial communication, RS232 or RS485 selectable.



MODELS

		50W peak	150W peak	250W peak
UHF	DVB-T	15W rms	40W rms	60W rms
	ATSC	20W rms	50W rms	80W rms
VHF III	DVB-T	-	-	50W rms
	ATSC	-	-	90W rms
VHF I	ANALOG	-	-	250W peak



▲ 3U Rear panel



Low Power TV Amplifiers

Technical characteristics

MODEL	AUTV/50LD	AUTV/150LD	AUTV/250LD	AVTV/50A	AVTV/200A	AVTV/200A
Frequency Range	UHF	UHF	UHF	VHF III	VHF III	VHF I
Analog Output Power	50W (±0.5dB)	150W (±0.5dB)	250W (±0.5dB)	50W (±0.5dB)	250W (±0.5dB)	250W (±0.5dB)
Digital Output Power (DVB-T/ATSC)	15W / 20W (±0.5dB)	40W / 50W (±0.5dB)	60W / 80W (±0.5dB)	-	50W / 90W (±0.5dB)	-
Amplification Class	AB	AB	AB	A	AB	AB
Gain	12dB ±1	13dB ±1	13dB ±1	16dB ±1	16dB ±1	22dB ±1
Remote Control	RS232, RS485	RS232, RS485	RS232, RS485	RS232, RS485	RS232, RS485	RS232, RS485
Input Connector	N Female	N Female	N Female	N Female	N Female	N Female
Output Connector	N Female	N Female	N Female	N Female	N Female	N Female
Power Supply Voltage	90-130V - 180-260V	90-260V	90-260V	90-260V	90-260V	90-260V
Power Supply Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Power Factor	-	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98
Analog Power Consumption (Black)	250VA	350VA	600VA	350VA	700VA	600VA
Digital Power Consumpt. (DVB-T/ATSC)	150 / 200 VA	250 / 300 VA	400 / 460 VA	-	450 / 650 VA	-
Housing	3U	3U	4U	4U	4U Amplifier in 10U Rack	4U Amplifier in 10U Rack
Weight	15kg	15kg	25kg	25kg	40kg	40kg
AirFlow	100m ³ /h	100m ³ /h	200m ³ /h	200m ³ /h	200m ³ /h	200m ³ /h
Temperature	-5°C to +45°C	-5°C to +45°C	-5°C to +45°C	-5°C to +45°C	-5°C to +45°C	-5°C to +45°C

Specifications and characteristics are subject to change without notice

OPTIONS

- Non Critical Mask, digital TV, output filter
- Critical Mask, digital TV, output filter

ELETRONIKA
SRL

SS 96 km 113 Z.I.
70027 PALO DEL COLLE (BA) ITALY
Tel. +39.080.626755 (PBX) - Fax +39.080.629262
elettronika@elettronika.it www.elettronika.it

N-COM

P.O. Box 207 Geebung
Brisbane Australia 4034
Ph: +61 7 3504530 Fax: +61 7 3315 4688
info@n-com.com.au www.n-com.com.au