



AMP-25WDTV-BX

HIGH POWER TV AMPLIFIER

25 W

This is our TV UHF amplifier 25 W RF power built-in a high quality box. It is fully broadband for all UHF TV channels from 470 MHz- 860 MHz. This amplifier needs 0.5-1 W RF power for the full 25 W output/50 ohms. Power supply is DC voltage 28 V /2.5A. Extremely linear this amplifier has been made for small TV stations and studios. It is ideal as an exciter for a high power TV stages. This amplifier comes assembled and tested.



Technical Specifications	
FREQUENCY RANGE:	470 MHz – 860 MHz
IMPEDANCE:	50 ohm IN/OUT
RF INPUT	MIN POWER 0.5 W
GAIN	17.8 dB/470 MHz
DC POWER:	26 V
INTERMODULATION DISTORTION:	-49 dBc
POWER OUTPUT:	25 W
CURRENT CONSUMPTION:	2,290 mA
INPUT/OUTPUT CONNECTORS:	N TYPE
POWER PLUG:	STANDARD 2.5 mm

Electrical Specifications					
PARAMETER	MIN.	TYP.	MAX	UNITS	NOTE
FREQUENCY	470		862	MHz	
P1DB	25	30		W	
POWER		25		W _{pep}	2 tones, 100 kHz spacing (-27 dBc)
IMD3		-46		dBc	2 tones, 100 kHz spacing (20 W _{pep})
POWER INPUT		0,5		W	
GAIN	16	17		dB	
V SUPPLY	26	28	30	V _{dc}	
DRAIN CURRENT			1.2	A	
INPUT RETURN LOSS		-2.5		dB	See note 1
PHASE VARIATION		+/- 5%			Unit to unit
GAIN VARIATION			+/-1.5	dB	
F2 SECOND HARMONIC		-37	-25	dBc	
F3 THIRD HARMONIC		-47	-30	dBc	
BASEPLATE TEMP.	-10		+75	C	
VIDEO PARAMETER					
ANALOG POWER (ATV)				W _{ps}	Common amplification
DIGITAL POWER (DVB)				W _{rms}	
M.E.R (DVB)				dB	
SHOULDERS (DVB)				dBc	At +/- 4.2 MHz

Physical Dimensions (L x W x H): 6.0" x 3.0" x 2.0"
Weight: 680 g / 1.5 lb

Note 1: The In / Out return loss value is low due to push-pull single stage configuration of this amplifier (without Hybrid)
It is recommended to put a 4-5 dB attenuator in input in order to avoid a ripple of the gain in the final equipment.

ABSOLUTE Maximum Ratings			
PARAMETER	VALUE	UNITS	NOTE
OUTPUT POWER	35	W	
INPUT POWER	1.0	W	
OPERATING VOLTAGE	30	V _{dc}	
STABLE OPERATIONS	28	V _{dc}	
BIAS CURRENT	0.6	A	
DRAIN CURRENT	2.2	A	
VRSW	3:1		
STORAGE TEMP	-20 +80	C	
BASE PLATE TEMP	75°	C	