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# 40 W UHF TV TRANSMITTER

## VTRANS-1

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This professional UHF amplifier is connected to the output of any tv modulator. It gives 40W Rf Power in CW mode. Power input is low as 5 mW. Most TV analogue rack-mount modulators give 55-60dBmV's or app 10mW-15mW of output power. This is all you need to go on the AIR. This amplifier is good for frequencies 460MHz- 540MHz or NTSC channels 14-26 (PAL channels 21-31). This amplifier is already filtered with a built-in VSWR and temperature protection. Just add an UHF antenna and you are good to go. This amp runs on car battery 12V as well. Simple instructions are included.

It is not possible to cover all UHF TV band continuously. TV signal must be well filtered. Otherwise you will have spurious and harmonics all over the place. Claims and some advertising that TV transmitter gives full power in all uhf range 470-860MHz are not correct. With this amplifier you will have full CW power of 40 W from 460MHz-540 MHz. If you transmit digital signal you will get 15-19 Wrms power in DTV (8-VSB) mode.

*Note: this amp cannot be used with a small commercial tv modulators, they have a very low power output, not enough to drive the amplifier.*

- POWER 40 W CW
- DC12-14V
- CURRENT 6 A
- INPUT POWER 3 mW
- BNC-INPUT CONNECTOR
- N-OUTPUT CONNECTOR
- TV CHANNELS 14-26 NTSC
- TV CHANNELS 21-31 PAL
- BUILT-IN HEATSINK
- DC CONNECTOR 2.5 MM

Parameters	Value
Input Voltage	+15 Vdc
Bias Current	3.0 Amp
Drain Current / Load Mismatch	6 Amp
All Phase Angles	5:1
Baseplate Temp	+70° C
Storage Temp	-40° ~ +105° C

**Specifications: (Vsupply=+12.8Vdc, Idq=6A, Freq=460-540MHz)**

Parameter	Min	Typ	Max	Unit
Frequency	440		558	MHz
Pout P1dB		43	50	Watts
Gain	26	27		dB
Gain Variation		±1.0		dB
Power In	3	5	35	mWatts
Drain current		6		Amps
Efficiency	45	47		%
Input VSWR		1.2:1	1.5:1	
2nd Harmonic		-45		dBc
3rd Harmonic		-55		dBc
Baseplate Operating Temp.	0		+70	° C
Size			6.5"x 4"x 3.5"	

This amplifier is a complete tested unit, enclosed in a silver professional box professional German made box. TV Modulator is not included. Amplifier needs 12 V dc power 6 A, power supply is not included. All sales are Final; If you need more info how to hookup this unit to the modulator please contact the specialist, I don't know how to do that...

**NOTE: THIS AMPLIFIER COMES ASSEMBLED AND TESTED**