



ELTRONIKA

SRL



Rack 19"-10U (optional)

**50W
OUTPUT POWER**

TV Solid State VHF Transmitter **TXVP50**

The TXVP50 is a Broadband TV class A transmitter with rated output power of 50W. It is developed to broadcast Amplitude Modulation signals, in IIIBd VHF.

It is completely produced with Solid State MOS technology. The final result is a compact apparatus, all inside a standard 19"-10U cabinet (optional), with a very good price-to-quality ratio.

It can operate without adjustments, with power supply from electrical network. It uses Microcontroller technology for the protection and measurement circuitry, which controls RF output power, SWR, temperature, current and voltage of the RF module.

Our product can solve any customer's problem, because it unites high reliability and performance with low cost.

A 6-cell Notch Filter is available at the amplifier output to attenuate the intermodulation products levels in the external range.

TECHNICAL CHARACTERISTICS

RF SECTION

Frequency range	170 - 230MHz
Output power	50W (± 0.5 dB)
Output power control	Automatic or manual (switch-selected)
Local oscillator	2.5ppm (option 0.05ppm)
Step	1kHz with line offset
I.M.D.	< -60dB (with IF-Precorrector)
Spurious and harmonics level	< -60dB
RF Output impedance	50
RF Output connector	N Female
Intermediate frequency	38.9 or 45.75MHz on request
IF Output level	0dBm

SOUND SECTION

Input level	1Vpp (adj.)
Input impedance	600 Balanced
Input connector	Twinax
Pre-emphasis	50 s
Frequency response	30Hz - 15kHz, ± 0.5 dB
Total harmonic distortion	< -0.5%
FM Signal noise ratio (referred to +/-50kHz dev. f = 400Hz)	> -68dB > -60dB (unweighed)

VIDEO SECTION

Input level	1Vpp
Input impedance	75
Return loss	26dB
Differential gain	< 10%
Differential phase	< 6°
Group delay	± 40 ns
Input connector	BNC Female
Sideband spectrum response	According to the standard
Amplitude frequency response	According to the standard

GENERAL

Power supply	115/230Vac Single phase, $\pm 10\%$
Typical power consumption	350VA
RS232/RS485 Socket	DB9 Connector
Telemasuring socket	DB9 Connector
Dimensions	Rack 19"-10U (Optional) 540x510x470
Ambient temperature	-5° to +45°C
Humidity	20% - 90%

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