



The **TXVP5000** is composed by:

- ① Power Control Rack
- ② RF Rack
- ③ Driver Rack

**5kW
OUTPUT POWER**

TV Solid State VHF Transmitter - I, II, IIIBd **TXVP5000**

TXVP5000

Caratteristiche principali:



- Alta qualità Video/Audio
- Amplificazione classe AB
- Alimentazione switching-mode
- Display LCD per il controllo dei parametri
- Gestione completa della macchina tramite microprocessore
- Disponibilità di telecontrollo dell'amplificatore finale
- Visualizzazione degli allarmi di massima potenza, SWR, temperatura, sbilanciamento, tensione di alimentazione
- Completa ridondanza di funzionamento
- Amplificazione Audio/Video separata

TXVP5000

Main features:



- High Video/Audio quality
- Class AB amplification
- Switching-mode power supply
- LCD Display to check the parameters
- Managed completely by microprocessor
- The final amplifier may be remotely controlled
- Display of the alarms for maximum power, SWR, temperature, unbalancing, power supply voltage
- Complete working redundancy
- Separated Audio/Video amplification

TXVP5000

Características principales:



- Alta calidad de Video/Audio
- Amplificación clase AB
- Alimentación a "Switching mode"
- Display LCD para el control de los parametros
- Gestion completa del equipo a través de microprocesador
- Disponibilidad de telecontrol al amplificador final
- Visualización de las alarmas de máxima potencia, SWR, temperatura, desbalance y tension de alimentación
- Redundancia completa de funcionamiento
- Amplificador de Audio/Video separado

The PCAV Transmitters do not include any option; they must be considered separately:

Option PCP: Video Group Delay Pre-corrector;
Option 02: +/- 0.05ppm frequency stability;

Option PCP-S: Video Group Delay Pre-corrector, white level control and synch. regenerator;
Option 03: Professional SAW Filter.

TECHNICAL SPECIFICATIONS

RF SECTION

Frequency band	I, II, IIIBd (on request)
Vision/Sound power ratio	10/1 single sound
Out stage technology	Solid state MOSFET
Vision/Sound amp.	Separated
Output power	5kW synch. peak video + 0.5kW audio car. synch. peak
Output power control	Automatic or manual (switch-selected)
Output frequency stability	2.5ppm (option 0.05ppm)
Local oscillator	PLL-controlled with TCXO for reference
I.M.D.	< -70dB
Spurious and harmonics level	According to CCIR req. or OIRT
RF Output impedance	50 (75 on request with output transformer)
RF Output connector	EIA 1+5/8"
Intermediate frequency	38.9 or 45.75MHz on request

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	> -68dB
(referred to ± 50 kHz dev. $f = 400$ Hz)	> -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	400Vac, 3Ph+N, $\pm 10\%$, 50/60Hz (other on request)
Cabinet	n. 2 Racks 19"-36U
Ambient temperature	-5° to +45°C
Humidity	20% - 90%

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