



Rack 19" (optional)

**150W
OUTPUT POWER**

LDMOS Technology TV Transmitter **TXUP100LD**

TXUP100LD

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

TXUP100LD

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

TXUP100LD

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 travez de microprocesador
- Disponibilidad de telecontrol al amplificador final
- Visualización de las alarmas de maxima potencia, SWR, temperatura, desbalance y tension de alimentacion
- Redundancia completa de funcionamiento

TECHNICAL SPECIFICATIONS

RF SECTION

Frequency range	470 - 860MHz
Output power	150W PEP
Vision / Sound power ratio	10/1 single sound - 20/1/0.2 dual sound
Out stage technology	Solid State LDMOS
Vision / Sound amplification	Common
Standards	G, I, K, M
Sound transmission	FM single sound - Dual sound coding IRT - NICAM 728
Harmonics and spurious emission	In compliance with CCIR rec.
Intermodulation products from vision and sound	56dB
Frequency stability	2.5ppm (option 0.05ppm)

VISION SECTION

Video input	BNC 75 connector
Nominal input level	1Vpp \pm 6dB
Return loss	30dB
DC Restoration	Clamped to the blanking level without affecting the burst
White limiter	At 90% picture signal without affecting the chrominance

Transmission characteristics

Sideband spectrum response	According to the standard
Amplitude-frequency response	According to the standard
Group delay variation without receiver pre-correction and TV demodulator in flat	\pm 35ns
Non-linearity distortion (10 to 75% mod.)	5%
Differential gain (10 to 75% mod.)	5%
Differential phase (10 to 75% mod.)	5°
Signal-to-random-noise ratio (weighed 0.2 to 5MHz)	60dB
Blanking level variation	2%
2T k factor	2%

SOUND SECTION

Nominal input level (\pm 50kHz dev.)	-10 to +8dBm
Input impedance	600 balanced
Pre-emphasis	50 s

Transmission characteristics

Amplitude-frequency response	40 to 15000Hz \pm 0.5dB
Total harmonic distortion	0.5%
FM Signal-to-noise ratio (referred to \pm 50kHz dev. $f = 400$ Hz)	60dB (weighed)
AM Signal-to-noise ratio	50dB (referred to 100%)
AM Synchronous modulation	40dB (referred to 100%)

REMOTE CONTROL

Parallel interface	On/Off, Alarms, Interlock
Serial interface	RS232 (Full monitoring and management)

GENERAL

Power supply voltage	115/230VAC Single Phase, \pm 10% (other on request)
Frequency	50-60Hz, \pm 5%
Temperature operating range	0 to 45°C
Altitude	Up to 2,500 meters (2,500m with additional cooling system)
Power consumption (cooling system included)	300VA
Power factor	0.9
Cooling	Forced air
Dimensions	Rack 19" (<i>Optional</i>)

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