

Transmitter TV UHF 500 Watt Band IV-V



Technical Data

Input & Modulation Data

TV Standard All standards with negative vision modulation

Audio Transmission FM single sound

Audio-Video Amplification Common

Video Input

Level 1Vpp + 6 dB

Return Loss better than -30 dB (0+6 MHz) (75 ohm)

Connector BNC female, 75ohm

Audio Input

Level 6 dBm ± 6dB (Āf=50kHz)

Return Loss better than -30 dB (40 Hz ÷ 15 kHz) (600ohm, bal.)

Connector XLR female, 600ohm

Video

Amplitude-Frequency Response According to the standard

Tilt 50 Hz 1.0% max

Tilt 15 kHz 0.5% max

K Factor 1% max (with 2T sin2 pulse)

Group Delay Variation ±35 ns

Luminance Non-linearity ±2% max

Differential Gain 5% typ.

Differential Phase ±4° max

ICPM ±3°

Signal-to-Hum Ratio 48 dB (f<1 kHz, peak value)

S/N weighted >60 dB (CCIR 567)

Audio

Amplitude-Frequency Response 0.5 dB max (40 Hz ÷ 15 kHz)

Preemphasis 50 or 75 usec (depending on Television Standard)

Total Harmonic Distortion < 0.5% (40 Hz ÷ 15 kHz, Āf=50 kHz)

FM S/N unweighted >60 dB

FM S/N weighted >63 dB (CCIR 567 - FM)

AM S/N unweighted >50 dB (referred to 100%)

AM S/N Synchronous >40 dB (referred to 100%)

RF

Output Power 500 Wps

Frequency Range 470 ÷ 860 MHz

RF Output Connector 7/16 female, 50 ohm

Frequency Stability 0.1 ppm/6 months

Spurious Emissions better than -60 dB

Harmonics better than -60 dBc

IMD better than -53 dB

General Data

Temperature Operating Range -5° to 45° C

Voltage Power Supply AC 220 V ± 20% (other on request)

Frequency 50-60 Hz ±5%

Relative Humidity 90% max

Power Consumption 1.8 k VA (black level)

Cooling Forced air

Cabinet Rack 19" – 20U

Weight 110 kg