

FRONT LOAD 50W TV TRANSMITTER MOT 50 FL

The **MOT 50 FL** is a front load 50W modulator transmitter which meets the strictest demands of the international Broadcasting according to CCIR and FCC specifications. This module covers the whole frequency range for I-III-IV-V bands.



MAIN ADVANTAGES

- The standards and channels are easily and quickly selected from the display menu. It is possible to add or subtract an offset frequency to the channel in steps of 1/12 of video frequency.
- It includes video-linearity and IF pre-corrector of 12 cells, together with clipper and synchronism regenerator with frequency offset included. The last allows frequency shifts in 1Hz (CCIR), 0.999000999Hz (FCC) steps, or both at the same time.
- There is a 20MHz VCTCXO reference frequency that can be fine tuned from the display or blocked to 5MHz (10MHz) OCXO reference frequency. It also includes an external 5MHz input (10 MHz).
- The LCD displays the following parameters: forward power, reflected power, video, audio and synchronism levels, power supply voltage, power consumption, frequency channel and offset. All these parameters can be seen using a telemetry system through RS232 serial port.

GENERAL CHARACTERISTICS

	RF
FREQUENCY RANGE	I-III-IV-V bands
OUTPUT POWER	0 to 50W adjustable
AVAILABLE STANDARDS	B, D, G, H, I, K, M, N
FREQUENCY STABILITY	1ppm
SPURIOUS AND HARMONICS LEVEL	<-60dB
RF OUTPUT CONNECTOR/IMPEDANCE	N(F)/50Ω
INTERMODULATION TO OUTPUT POWER	<-60dBc (typical -63dBc)
EXTERNAL REFERENCE INPUT	5MHz or 10MHz

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VIDEO	
INPUT CONNECTOR/IMPEDANCE	BNC(F) connector/75Ω
NOMINAL INPUT LEVEL	1Vpp ±6dB
BLACK/WHITE LEVEL LIMITATION	95%
GROUP DELAY	≤35ns
2KT FACTOR	<1.5%
FREQUENCY RESPONSE	≤±0.5dB
DIFFERENTIAL GAIN	≤±5%
DIFFERENTIAL PHASE	≤±3%
LUMINANCE NON-LINEARITY	<4%
SYNCHRONISM COMPRESSION	≤±3%
S/N RATIO	≥60dB
ICPM	<3°
FRAME DISTORTION	<±2%
LINE DISTORTION	<±2%

AUDIO	
INPUT CONNECTOR/IMPEDANCE	XLR(F) connector. 600Ω/10KΩ (selectable)
NOMINAL INPUT LEVEL	0dBm ±8dB, 0.5dB steps
PRE-EMPHASIS	Options: flat, 50μs, 75μs
FREQUENCY RESPONSE (30Hz A 15KHz)	±0.5dB (typical ±0.2dB)
HARMONIC DISTORTION (30Hz A 15KHz)	<0.4% (typical better than 0.2%)
STEREO DUAL MODE	Ask for availability

GENERAL SPECIFICATIONS	
AC POWER SUPPLY	90-260Vac, 50/60Hz
CABINET	Front load, 3 standard rack units of 19"
WEIGHT	16Kg
OPERATING TEMPERATURE RANGE	-10 to +45°C
MAXIMUM RELATIVE HUMIDITY	90% without condensation
COOLING	Forced air
INTERFACES	Analog/digital output, enabling input, RS485,RS232

** The images and/or technical specifications are subject to change without previous notice.*

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