

MOT 5000 PLATINUM B.III

The **MOT 5000 Platinum B.III** is a 5KW TV transmitter made up of the **MOT 10/15 Platinum** modulator/transmitter and 5 **S1500 VHF** amplifiers, designed with LD MOS technology. The option of independent operation in case of emergency is implemented, so that the user can have reserve amplifiers. Using the complete alarm and digitalized information systems of the MOT 5000 Platinum B.III, the user can control the following parameters: exciter and final stage forward power, exciter and final stage reflected power, video level, audio level, synchronism level, power supply voltage level, consumption and final stage voltage. The transmitter includes protections against: forward power excess, SWR excess, over-consumptions, over-voltages and over-temperature. The MOT 5000 PLATINUM B.III also includes digital telemetry output and Notch BPF (Band Pass Filter).

TECHNICAL FEATURES**MOT 10/15 PLATINUM****RF**

FREQUENCY RANGE	Band III
OUTPUT POWER	0 ~ 15W adjustable
OUTPUT POWER CONTROL	Automatic or manual (switching selectable)
SPURIOUS & HARMONICS LEVEL	<- 60dB
RF OUTPUT CONNECTOR/IMPEDANCE	N Female / 50Ω
VIDEO	
INPUT CONNECTOR/IMPEDANCE	BNC Female / 75Ω
NOMINAL INPUT LEVEL	1Vpp ± 6dB
INPUT RETURN LOSS	≥ 30dB up to 5MHz
DC RESTORER	Clamped to Back Porch
WHITE CLIPPER	90 ~ 115% adjustable (chrominance non-affected)
GROUP DELAY PRE-CORRECTOR	8 correcting cells
GROUP DELAY	≤ 50ns (with professional VSB filter)
FREQUENCY RESPONSE	≤± 0.5dB
DIFFERENTIAL GAIN	≤± 5%
DIFFERENTIAL PHASE	≤± 5%
LUMINANCE NON-LINEARITY	≤ 5%

SIGNAL TO HUM RATIO	≥ 45dB (weighted)
S/N RATIO	≥ 65dB weighted, ≥ 55dB un-weighted
BLACK LEVEL VARIATION	≤ 2%
2T K FACTOR	≤ 1%
VIDEO IF	32.7 ~ 45.75MHz (customer requested)
EXTERNAL LINK IF LEVEL	-15 ~ -10dBm
AUDIO	
INPUT CONNECTOR/IMPEDANCE	XLR Female 600Ω / 10KΩ balanced
NOMINAL INPUT LEVEL	2.2Vpp (-10 to + 6dB adjustable)
PRE-ENPHASIS	Options: Flat, 50μs or 75μs
LOW PASS FILTER	15KHz, 100KHz
LIMITATION CIRCUIT	Δfnom + 1 dB
FREQUENCY RESPONSE	≤ 0.5 dB
HARMONIC DISTORTION	≤ 0.5%
INTERMODULATION DISTORTION	d2 ≤ - 60dB, d3 ≤ - 60dB
FM CCIR S/N RATIO	≥ 60dB weighted, ≥ 60dB un-weighted (ref. 50KHz)
AM S/N RATIO	≥ 70dB asynchronous, ≥ 50dB synchronous (ref. 100%)
INTERMEDIATE FREQUENCY	From 30.5 to 41.25MHz (customer requested)
IF LEVEL (ON EXTERNAL LINK)	Adjustable
CHANNEL LOCAL OSCILLATOR	
OFFSET	± 32KHz max.
FREQUENCY STABILITY	± 2.5ppm from - 5 to + 45°C (0.05 ppm optional)
REFERENCE INTERNAL INPUT FOR THE PRECISION	
OSCILLATOR	5MHz
OUTPUT LEVEL (MIXER INPUT)	+ 7dBm ± 1dB
FM CCIR S/N RATIO	≥ 60dB weighted, ≥ 60dB un-weighted (ref. 50KHz)
GENERAL SPECIFICATIONS	
AC POWER SUPPLY	90 ~ 260VAC, 50/60Hz
CABINET	3RU Height (19" standard rack)
WEIGHT	28.66Lbs (13Kg)
OPERATING TEMPERATURE RANGE	- 5 ~ + 45°C
RELATIVE HUMIDITY RANGE	20 ~ 90% non-condensed
REMOTE CONTROL/TELEMETRY	DB-9 Female
S 1500 VHF	
FREQUENCY RANGE	170 ~ 230MHz
OPERATION CLASS	AB linear
INPUT / OUTPUT IMPEDANCE	50Ω
INPUT RETURN LOSS	≥15dB
INPUT POWER	1.4 ~ 3W nominal
OUTPUT POWER	1500Wp.s.
POWER SUPPLY REQUIREMENT	90 ~ 260V _{AC}
MAX. POWER CONSUMPTION	2500 ~ 3000W
RF INPUT CONNECTOR	N Female
RF OUTPUT CONNECTOR	DIN 7/16" Female
PROTECTIONS	RF Reflected Power (≥100W) Overcurrent Overtemperature
COOLING	Forced air
OPERATING TEMPERATURE	-5 ~ 45°C
ALTITUDE	Up to 3000m.
WEIGHT	18Kg. (39.6lbs) approx. (without power supply unit)
CABINET DIMENSIONS	4RU , 19" standard rack (without power supply unit)

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