ATSC DIGITAL TV TRANSMITTERS
MOT 60 ATSC

The **MOT 60 ATSC** transmitter provides a cost-effective solution to meet the most demanding requirements of today's digital Terrestrial Television Broadcasting. It is made up of the **ATSC modulator** and the **S 60 ATSC** amplifier. An intermediate external driver is included in order to improve the efficiency of the final amplifying stage. Using the complete alarm and digitalized information systems of this transmitter, the user can control and visualize the most relevant parameters of the transmission: modulation (according to the ATSC standard) and amplification quality. Digital telemetry output is included, and critical or non-critical mask filter can be supplied.

OMB BROADCAST

[I+D]

3MOT S1500 YAV 3DIR SGP 2-R COM LIM3 MMS 412 MIX ONE100

DTP3 TX3000

TECHNICAL SPECIFICATIONS

ATSC SIGNAL PROCESSING

SUPPORTED MODE	8VSB
BANDWIDTH	6MHz
NETWORK MODE	SFN y MFN
TEST MODE	CW mode, selectable from the control interface

INPUTS

DVB-ASI: IN A, IN B	MPEG-2 2 ASI inputs Connectors: BNC Female 75Ω
G.703/G.704: IN A, IN B	ETI (NI) 2.048MHZ short haul or ETI (NA) 2 G.703/G.704 inputs Connectors: BNC Female 50Ω
GPS CLOK REFERENCE	Connector: BNC Female Frequency: 10MHz Level: 100mV-3Vpp Impedance: 50Ω
TIME REFERENCE	Connector: BNC Female Frequency: 1PPS Level: TTL Trigger: Positive transition Impedance: 50Ω

RF OUTPUT PARAMETERS

CONNECTOR	N type Female 50Ω
FREQUENCY	50-1000MHz in 1Hz step
FREQUENCY STABILITY	In accordance with external GPS reference Intern reference 1ppm
LEVEL	-10dBm to 0dBm in 0.1dB steps (optional from 0 to 10dBm)
LEVEL STABILITY	±0.3dB
RETURN LOSS	>20dB
MER	≥43dB
SHOULDER LEVEL	≤-51dBc
SPURIOUS LEVEL OUTSIDE CHANNEL	≤-60dBm at 0dBm output
PHASE NOISE SSB (MEASURED AT 474MHZ)	10Hz: <-56dBc/Hz 100Hz: <-90dBc/Hz 1kHz: <-100dBc/Hz 10kHz: <-110dBc/Hz 100kHz: <-120dBc/Hz 1MHz: <-120dBc/Hz

PRE-CORRECTOR

NON-LINEAR PRE-CORRECTOR	Gain correction: Max. 12dB Phase correction: -6 a 30°
LINEAR PRE-CORRECTOR	Amplitude correction: ±10dB Amplitude resolution: 0.01dB Group delay correction: ±2000ns Group delay resolution: 1ns

AMPLIFICATION STAGE

FREQUENCY RANGE	IV & V UHF band: 470 ~ 870MHz
AMPLIFICATION TYPE	A Class
OUTPUT CONNECTOR/IMPEDANCE	N Female / 50Ω
OUTPUT MONITOR CONNECTOR/IMPEDANCE	BNC Female / 50Ω
SPURIOUS(WITH OUTPUT FILTER)	< -60dBc
HARMONICS (WITH OUTPUT FILTER)	< -60dBc
SHOULDER LEVEL	<-36dBc
MER	> 36dB
OUTPUT POWER	60Wrms

CONTROL AND VISUALIZATION INTERFACES

OUTPUT POWER CONTROL	Automatic or Manual (selectable)
PARAMETERS VISUALIZATION	On LCD Display (output power, reflected power, amplifier voltage and current, temperature…)
RS 232 INTERFACE	Connector: 9-pin SUB-D Female
HW INTEFACE	Connector: 9-pin SUB-D Female
ETHERNET	RJ46

POWER SUPPLY

VOLTAGE / FREQUENCY	90 ~ 264V_{AC} / 47 ~ 63Hz
TOTAL CONSUMPTION	Max. 0.56KVA

MECHANICAL SPECIFICATIONS (WITHOUT RACK)

REFRIGERATIÓN	Forced air
DIMENSIONS	7RU 19"
WEIGHT	33Kg

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