

## OMB - EM 25 DIG



The **EM 25 DIG** is an FM transmitter (87.6 ~ 107.9MHz) externally synthesized in steps of 10KHz, microprocessor controlled and LCD display for the visualization of the most relevant transmission parameters like frequency, modulation

level, forward and reflected power, pre-emphasis, aux, L, R, MPX. It includes fold-back protection and telemetry output, and it is possible temporizing and tuning the output power from 0 to 25W. EM 25 DIG can be supplied with an internal digital stereo generator board (60dB separation).

### technical features

S/N RATIO BETWEEN 30Hz AND 15kHz	> 78dB, typical 86dB
S/N RATIO (AM ASYNCHRONOUS)	> 55dB, typical >60dB
S/N RATIO (AM SYNCHRONOUS)	> 50dB, typical >55dB
HARMONICS DISTORTION (75KHz dev.)	< 0.05%, typical 0.02%
HARMONICS DISTORTION (150KHz dev.)	< 0.2%, typical 0.05%
L/R STEREO CHANNELS CROSSTALK	< -50dB (with external coder)
	< -60dB (with internal coder, from 100Hz to 5kHz)
	< -50dB (with internal coder, from 30Hz to 15kHz)
FREQUENCY RESPONSE (PROGRAM CHANNEL)	± 0.1dB (30Hz ~15kHz)
AUDIO FILTER BAND ATTENUATION	> 50dB (f=19KHz)
BASE BAND LIMITER CUT	Adjustable between 0 and +7dBm
FREQUENCY RESPONSE (Multiplex INPUT)	± 0.1dB (10Hz ~ 100KHz)
FREQUENCY RESPONSE (AUX CHANNEL INPUT)	± 0.2dB (10Hz ~ 100KHz)
FREQUENCY RANGE	87.6 ~ 107.9MHz
MODULATION TYPE	FM, ± 75KHz dev. peak. F3E, F8E.
CHANNEL OSCILLATOR SYNTHESIZER STEPS	10KHz
RF OUTPUT POWER	Adjustable between 1 and 25W <sub>RMS</sub>
HARMONICS LEVEL	< -60dBc, typical -70dBc
SPURIOUS LEVEL	< -80dBc, typical -95dBc
RF OUTPUT IMPEDANCE	50Ω asymmetrical
RF OUTPUT CONNECTOR	N female
Audio/Multiplex INPUT IMPEDANCE	Selectable 10KΩ / 600Ω, sym./asym.
AUDIO INPUT CONNECTOR	XLR Female symmetrical
SCA/RDS INPUT IMPEDANCE	10KΩ asymmetrical
SCA/RDS INPUT CONNECTOR	BNC Female
Audio/MPX INPUT LEVEL at ±75KHz dev.	Adjustable between -3.5 and +12.5dBm
SCA/RDS INPUT LEVEL at ±7.5KHz dev.	Adjustable between -12.5 and +3.5dBm
SCA/RDS INPUT LEVEL at ±2.0KHz dev.	Adjustable between -24 and -8dBm
MODULATION OUTPUT LEVEL	0 ~ +10dBm (for ±75KHz dev. peak)
PRE-EMPHASIS TIME CONSTANT	Variable 0 / 50 / 75μs ± 2%
POWER SUPPLY	115 / 230V <sub>AC</sub> ±15%, 50/60Hz
Consumption (at 25W OUTPUT RF POWER)	130VA / 75W
OPERATING TEMPERATURE RANGE	-10 ~ +45°C
Dimensions	2RU 19" standard rack (483 x 88 x 334 mm)
WEIGHT	6Kg (13.2lbs)

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