

FM TRANSLATOR

The OMB **FM TRANSLATOR** is composed by an FM MR receiver in the band of 87.5-108MHz together with the EM 25 DIG transmitter. Its purpose is to repeat the signals with 3MHz separation between the input and the output signals, and its power can be increased by adding amplifiers from 250W to 2KW.



GENERAL CHARACTERISTICS

RECEIVER MR PLATINUM	
FREQUENCY RANGE	87.5-108MHz
POWER SUPPLY	100, 120, 220 & 240V $\pm 10\%$ 50-60Hz, mono-phase 6W 24VDC optional
COOLING	Forced air
SENSITIVITY	MPX: 100mV or less for 60dB SNR MONO: 100 μ V or less for 65dB SNR
SELECTIVITY	± 100 KHz at -3dB ± 350 KHz at -70dB
TOTAL HARMONIC DISTORTION	<0.2%
STEREO CHANNEL SEPARATION	>40dB, from 50Hz to 15KHz
AUDIO OUTPUTS	MPX: +13dBm, 600 Ω unbalanced MONO: +13dBm, 600 Ω unbalanced
NOISE FIGURE	Approx. 6dB
OPERATING TEMPERATURE RANGE	-10 to +45°C
RELATIVE HUMIDITY	90% maximum, not condensed
DIMMENSIONS	82x326x445mm
WEIGHT	6.5Kg

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EM 25 DIG PLUS	
FREQUENCY RANGE	87.5-108MHz
FM MODULATION	75KHz (adjustable) peak deviation. Mono 180kF3E and Stereo 256kF3E
AUDIO/MPX INPUT LEVEL	-3.5 to +12.5dBm @ 75KHz deviation
AUDIO INPUT CONNECTORS	XLR(F)
AES/EBU DIGITAL INPUT CONNECTOR (OPTIONAL)	XLR(F), 110Ω balanced
SEPARATION BETWEEN CHANNELS (OPTIONAL STEREO GENERATOR)	60dB
AUX. CHANNEL INPUT LEVEL (RDS/SCA)	7.5KHz deviation: -12.5 to 3.5dBm 2KHz deviation: -24 to -8dBm
AUX. CHANNEL INPUT IMPEDANCE	10KOhm
MODULATION DISTORTION	7.5KHz deviation: <0.05%, 0.02% typical 2KHz deviation: <0.2%, 0.05% typical
MONO S/N RATIO	30 to 20000Hz: >76dB, 86dB typical CCIR: >75dB, 81dB typical
STEREO S/N RATIO	30 to 20000Hz: >72dB, 77dB typical CCIR: >68dB, 72dB typical
AUDIO CHANNELS BANDWIDTH	30 to 15000Hz ±0.1dB
PRE-EMPHASIS TIME CONSTANT	Selectable, 25/50/75 microseconds
NOMINAL RF OUTPUT POWER	25W
TRANSMITTER TUNING STEPS	10/100KHz
OUTPUT POWER ALC STABILITY	±3%
HARMONICS AND SPURIOUS EMISSIONS	<80dBc
RF OUTPUT IMPEDANCE	50Ω
RF OUTPUT CONNECTOR	N type
RF SAMPLER CONNECTOR	BNC type
POWER SUPPLY	Single phase 110-230Vac ±15% 50/60Hz
CONSUMPTION	96VA (25W)
OPERATING TEMPERATURE RANGE	0 to 40°C recommended, -10 to 55° max.
RELATIVE HUMIDITY	Up to 95% not condensed

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

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