

RE-EMITTER FOR OUTSIDE BROADCASTING UNIT

The OMB RE-EMITTER FOR OUTSIDE BROADCASTING UNIT is composed by a receiver and a transmitter. This equipment allows increasing the coverage of an outside broadcasting unit (over 100km/60 miles), being installed on a mountain or high-rise building.



GENERAL CHARACTERISTICS

RECEIVER MR PLATINUM	
NOISE FIGURE	≤10dB
IMAGE FREQUENCY REJECTION	≥50dB, typical 60dB
DYNAMIC SELECTIVITY	>+10dB @ $\delta f=300\text{kHz}$ >+35dB @ $\delta f=500\text{kHz}$
AM SUPPRESSION	>45dB
USABLE INPUT LEVEL	-90 to -10dBm (7 μV -70mV)
TYPICAL INPUT SENSIBILITY (SIGNAL/NOISE=60dB)	-90dBm (7 μV) mono -70dBm (70 μmV) stereo
FI MONITOR OUTPUT	10.7MHz/0dBm
WIDE BAND DEMODULATED OUTPUT RESPONSE	15Hz-120kHz +0.1/-3dB
WIDE BAND DEMODULATED OUTPUT LEVEL	+6dBm
MPX OUTPUT LEVEL	-1.5 to +12dBm, 0.5dB/step
MPX OUTPUT RESPONSE	15Hz-67kHz +0.1/-0.5dB
MONO OR STEREO DECODED RESPONSE	30Hz-15kHz $\pm 0.1\text{dB}$
OUT OF BAND MONO OR STEREO AUDIO RESPONSES ($F \geq 19\text{kHz}$)	>50dB
DE-EMPHASIS TIME CONSTANT	0/50/75 μs $\pm 2\%$

MODULATION DISTORTION AT 1KHz (100% DEVIATION)	≤0.1%, typical 0.03% (mono) ≤0.3%, typical 0.2% (1 stereo channel)
STEREO CROSS-TALK	>50dB (100-5000Hz) >45dB (50-15000Hz)
DIMENSIONS	2 standard rack units of 19"

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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