

OMB - EM 50



EM 50 is an F.M. Transmitter (87.5 ~108 MHz) externally synthesized with a step of 10KHz, microprocessor controlled and with LCD display for the visualization of transmission parameters: Forward and Reflected Power, Deviation level, etc.

It includes fold back protection, Mono/Stereo audio (MPX) inputs, 3 SCA inputs and telemetry output. User can adjust output power from 0 to 50W. The EM 50 can be supplied with an internal digital stereo generator board (60dB separation).

technical features

operating frequency range	87.5 ~ 108.0MHz
modulation	FM CLASS F3E, F8E (? 75KHz maximum deviation)
VCO tuning	25MHz
frequency stability	± 2.0ppm
frequency tuning step	10KHz
RF power output	0 ~ 50Wrms adjustable
spurious	< - 80dBc
harmonics	< - 70dBc
STEREO CHANNEL SEPARATION	> 55dB / 1KHz
T.H.D. distortion	< 0.1 % / 1KHz (0.08% typical)
BaseBAND FREQUENCY RESPONSE	0.15dB from 30Hz to 60KHz
unweighted S/N ratio	> 78dB from 30Hz to 15KHz (Mono input, Pre-emphasis of 50µs)
asynchronous AM S/N ratio	> 65dB Ref. 100 % AM / 400Hz
synchronous AM S/N ratio	> 60dB with FM / 75KHz / 400Hz
Pre-EMphasis	50 or 75µs internally selectable
RF output impedance	50Ω asymmetrical. N Female Connector
MPX input connector (main program)	BNC Female
stereo input impedance (main program)	High-Z 2KΩ
SCA input connectors	BNC Female
SCA input impedance	High-Z 2KΩ
Remote control interface	Serial RS232
cooling	Forced air (Axial blower)
operating temperature range	- 10° ~ + 45°C
maximum relative humidity	90% (non condensed)
AC power supply	110 ~ 240V _{AC} , 47/63Hz
Dimensions	2RU (19" rack), 410mm depth
weight	11.023lbs (5Kg)

Erickson Broadcast Sales Corporation

USA Call 888-830-8223 or 541-460-0249

website: www.ebsradio2000@yahoo.com e-mail: ebsradio2000@yahoo.com