



COMPACT FM TRANSMITTER/EXCITER

PM 60

Technical Characteristics

RF Data:

Output frequency range	87.5 ÷ 108 MHz
Output frequency setting	synthesized with PLL, 10 kHz step
Output impedance	50 Ω
Output connector	N female
Continuous output power	from 0 to 60 W front panel adjustable
Frequency stability:	
Thermal drift (0 ÷ 50° C)	± 1 kHz (better on request)
Aging drift	± 300 Hz year
Harmonics	≤ - 76 dB
Spurious	≤ - 80 dB
Syncro AM modulation (ref Carrier with 100% amplitude modulation at 400 Hz)	≤ - 60 dB
Asyncro AM modulation (ref Carrier with 100% amplitude modulation at 1 kHz)	≤ - 75 dB

AF Data:

Mono operation:	
Input level	- 6 ÷ + 10dBm adjustable
Input connector	XLR balanced
Input impedance	600 Ω
Bandwidth	(± 0.25 dB) 20 Hz ÷ 15 kHz
Audio Freq. Response	< ±0.5 dB (30 Hz to 15 kHz)
Attenuation for frequency ≥ 19 kHz	≥ 50 dB
Preemphasis	50 / 75 μs
S/N ratio (± 75 kHz dev. with 1 kHz input, unweighted)	≥ 80 dB
THD+N (± 75 kHz dev. with 1 kHz input, unweighted)	≤ 0.05 %
Stereo operation (with stereo coder included in /S models):	
L & R input level	- 6 ÷ + 10 dBm adjustable
Input connectors	XLR balanced
Input impedance	600 Ω
Bandwidth (± 0.25 dB)	20 Hz ÷ 15 kHz
Attenuation for frequency ≥ 19 kHz	≥ 50 dB

Preemphasis	50 / 75 μ s
S/N ratio (\pm 75 kHz dev. with 1 kHz input, unweighted)	\geq 88 dB
THD+N (\pm 75 kHz dev. with 1 kHz input, unweighted)	\leq 0.05 %
Stereo separation	66 dB (70 dB tip.)
Stereo operation (with stereo coder /S option):	
MPX input level	3.6 Vpp per \pm 75 kHz dev.
Input connector	BNC balanced
Input impedance	10 k Ω
Bandwidth (\pm 0.2 dB)	20 Hz \div 100 kHz
Composite S/N ratio	> 88 dB
Composite Amplitude Response	\pm 0.05 dB (from 30 Hz to 50 kHz)
Composite Phase Response	\pm 0.3 $^\circ$ (from 30 Hz to 50 kHz)
Stereo Separation	> 65 dB

SCA 1, SCA 2, SCA 3:

Input level	2.2 Vpp per 7.5 kHz dev.
Input impedance	10 k Ω
Bandwidth (\pm 0.2 dB)	40 \div 100 kHz

Metering:

\pm 12 V, + 48 V, forward and reflected power, MPX level, 19 kHz, L & R, deviation
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Alarms:

VSWR, Overtemperature, Overvoltage

Power supply:

Operating voltage	110/220/230 Vac \pm 5 %, 50/60 Hz
Power consumption (at maximum output power)	115 VA
Battery operation (opt.)	48 Vcc

Operating conditions:

Cooling	air forced, 24Vcc axial fans
Temperature range	- 10 $^\circ$ \div + 45 $^\circ$ C
Humidity	95% max.
Weight	27 Kg
Size (W x D x H)	430 x 495 x 125 mm

Options:

Front panel frequency setting	/C
Stereo coder	/S
Audio processor	/P
Remote control	/R
24 Vdc Battery operation	/VDC-24

Features and specifications subject to change without notice