



Mono/MPX/Stereo FM Exciter 87.5 - 108 MHz range

AMPLIFIERS
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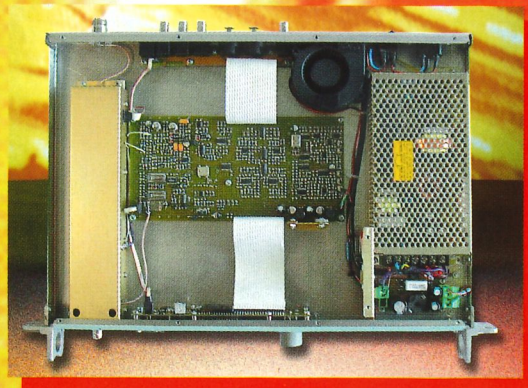
BLUES 30

BLUES 30 Features

1. State of the art sound quality.
2. Meets or exceeds all FCC and CCIR requirements.
3. Microprocessor controlled, via RS232 external PC - programmable.
4. Low cost with high performance.
5. Left and Right (Balanced and unbalanced), RDS/SCA, AUX and MPX inputs.
6. Easy to handle: comprehensive monitoring of all relevant parameters and setting value.
7. Modular construction, easy to customize and fast to test. Smartly designed to minimize spare parts.
8. All solid state using RF power mosfet in output module, LDMOS in driver stage.
9. Automatic Power Control (APC) maintains required RF power at 45°C and at 1.3:1 VSWR. Higher value of VSWR causes the power reduction.
10. Built-in stereo coder with high performance.

BLUES 30 Caratteristiche

1. Qualità audio allo stato dell'arte.
2. Specifiche conformi alle normative FCC e CCIR.
3. Controllato da un microprocessore, programmabile da PC via porta RS232.
4. Basso costo ed alte prestazioni.
5. Ingressi sinistro e destro (Bilanciati o sbilanciati), RDS/SCA, AUX e MPX.
6. Facile da utilizzare: ampio monitoraggio di tutti i parametri più importanti e settaggio dei valori.
7. Costruzione modulare, facilmente personalizzabile e veloce da collaudare. Opportunamente progettato per minimizzare le parti di ricambio.
8. Utilizzo di solo amplificatori a stato solido nel modulo RF d'uscita, LDMOS nello stadio driver.
9. Il Controllo Automatico della Potenza (APC) conserva la potenza RF impostata anche con 45°C e con 1.3:1 di ROS. Un alto valore di ROS causa la riduzione della potenza.
10. Stereo coder incorporato di elevate prestazioni..



TECHNICAL SPECIFICATIONS **BLUES 30**

Generals

- Panel size: 485 mm x 88 mm (1 HE)
- Overall depth: 365 mm
- Weight: About 5 Kg
- Ambient temperature range: -5 °C ÷ 45 °C
- Rated output power: 0-30 W continuously variable
- RF output connector: "N" type
- RF output impedance: 50 Ohm
- Frequency range: 87.5 MHz II 108 MHz
- Frequency programmability: Direct from software
- Frequency stability: ±1ppm from -10°C to 50°C
- Modulation type: F3E / F8E direct FM at the carrier frequency
- Spurious & harmonic suppression: Meets or exceeds all FCC e CCIR requirements (typical -75 dB)
- Modulation capability: Meets or exceeds all FCC and CCIR (± 150 kHz capability)
- Asynchronous AM S/N ratio: -69 dB or less referred to 100% AM, without de-emphasis
- Synchronous AM S/N ratio: ≅ -55 dB or less referred to 100% AM, modulation at FM 75 kHz at 500Hz, without de-emphasis
- Transient intermodulation distortion < 0.1% (typical 0.05%)
- A.C. power requirement: ≅ 110/223 V single phase AC (+10 / -15%), 50-60 Hz ±5%
- Power Consumption: ≅ 120 VA C.A.

Inputs

- Left-Right inputs: XLR female type balanced or unbalanced
- Left-Right inputs impedance: 10 kOhm or 600 Ohm
- Left-Right inputs level: -6 dBm ÷ +6 dBm , adjustable in 0.25dB steps
- MPX input: BNC type unbalanced
- Input impedance: about 5 kOhm
- Input level: +6 dBm
- Pre-emphasis: Selectable: 0
50 µs (CCIR)
75 µs (FCC)
- SCA/RDS inputs: 1 connectors BNC type unbalanced
- SCA inputs impedance: 10 kOhm
- SCA inputs levels: -20 dBm
- Amplitude/frequency response SCA: ± 0.15 dB, da 40 KHz a 100 KHz

Outputs

- RF Monitor: BNC connector type, approx. -44 dB referred to the RF output, 50 Ohm of impedance
- Pilot output: 1 connectors BNC type unbalanced
- Pilot output impedance: > 5 kOhm
- Pilot output level: 1 Vpp
- Pilot tone: 19 kHz square wave

Monoaural Operation

- S/N FM ratio: > 80 dB referred to ±75KHz measured on the range 30 Hz ÷ 20 kHz with 50 µs of de-emphasis, detector RMS
- Audio frequency response: ± 0.5 dB, 20Hz ÷ 15KHz
- Total Harmonic Distortion: < 0.05%

Composite Operation

- Composite amplitude response: ± 0.15 dB, 30 Hz ÷ 100 KHz

Stereo Operation

- Stereo FM S/N: > 80 dB referred to ±75KHz measured in the range 30 Hz ÷ 20 KHz with 50 µs of de-emphasis, detector RMS
- Audio amplitude response: ± 0.1 dB, 20 Hz ÷ 15 KHz
- Total harmonic distortion: ≤ 0.1%, 30 Hz to 15 kHz
- Intermodulation distortion: ≤ 0.1%, measured with 60 Hz and 7 KHz tones, 4:1 ratio
- Stereo separation: > 50 dB (typical 60 dB), 30 Hz ÷ 15 kHz

Remote connection

- RS232 interface: DB9 female I/O RS232 on front panel

CE 99/5/CE

Revision: 03/2003



RVR Elettronica SpA Via del Fonditore 2/2c
Zona Ind.Roveri 40138 Bologna Italy
Phone +39 051 6010506
FAX +39 051 6011104
e-mail: info@rvr.it - Web: http://www.rvr.it

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