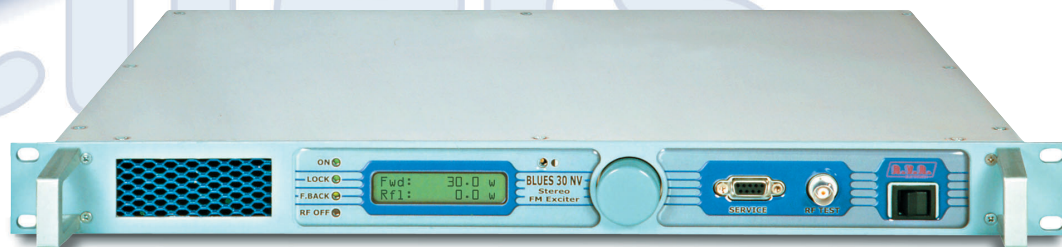


exciters



BLUES 30 NV

Mono/Stereo/MPX

FM Exciter

87.5 - 108 MHz

Features/Caratteristiche

All of RVR's Experience in this new ultracompact FM Exciter!

Broadcast quality, **reliable and at a value price, extremely compact**, ideal for STL stations and multi-channel applications via cable.

State-of-the-art audio quality for perfect reproduction, fully compliant with **FCC, CCIR** and all international regulations.

Microprocessor-controlled, easy to programme from the menu or via RS232, all main parameters can be read on the LCD display.

Integrated high performance stereo coder, L&R inputs, MPX and auxiliaries for SCA / RDS signals.

Output adjustable between 0 and 30 W automatic APC control and Foldback protection, **safe operation** under all operating conditions.

Made using SMD technology, **fully solid state**, MOSFET RF amplifiers.

Ultracompact, non-deformable and light, **1HE rack unit**, stainless steel chassis, only kg 6.

Maximum operating reliability and stability designed to **minimise spare parts**.

Tutta l'esperienza RVR nel nuovo eccitatore FM ultracompatto!

Qualità broadcast, **affidabile ed economico, estremamente compatto**, ideale per stazioni ripetitrici ed applicazioni multicanale via cavo.

Qualità audio allo stato dell'arte per una perfetta riproduzione, pienamente rispondente ad **FCC, CCIR** ed a tutte le normative internazionali.

Controllato da microprocessore, facilmente programmabile da menu' o via RS232, lettura su display LCD di tutti i parametri principali.

Stereo coder integrato ad elevate prestazioni, ingressi L&R, MPX ed ausiliari per segnali SCA / RDS.

Potenza di uscita regolabile da 0 a 30 Watt controllo automatico APC e protezione Foldback, **funzionamento sicuro** in ogni condizione di esercizio.

Costruito in tecnologia SMD, **completamente allo stato solido**, amplificatori RF a MOSFET.

Extracompatto, indeformabile e leggero, **1 unita' rack**, chassis in inox, solo kg 6.

Massima affidabilità e stabilità di funzionamento progettato per **minimizzare le parti di ricambio**.

BROADCAST
EQUIPMENT

R.V.R.
USA

RVR USA 7782 NW 46 ST Miami, Fl 33166 T: 305-471-9091 F: 305-471-6979

www.rvrusa.com

Technical specifications BLUES 30 NV

exciters

| Parameters | Conditions | U.M. | Value |
|---------------------------------|--|--------|--|
| GENERALS | | | |
| Frequency range | | MHz | 87.5 ÷ 108 MHz in 10 kHz steps (OIRT and JPN on request) |
| Rated output power | | W | 30 (continuously variable by software from 0 to maximum) |
| Frequency stability | WT from -10°C to 50°C | ppm | ±1 |
| Modulation type | | | Direct carrier frequency modulation |
| Operational Mode | | | Mono, Stereo, Multiplex |
| AC Supply Voltage | Mains input voltage range | VAC | 110÷230 +10/-15% (full range, internal switch) |
| Power Consumption | | VA / W | 120 / 70 |
| Display | | | Alphanumerical LCD - 2 x 16 |
| Physical Dimensions | Front panel width | mm (") | 483 (19") |
| | Front panel height | HE | 1 |
| | Overall depth | mm (") | 394 (15,5") |
| Weight | | kg | 6 |
| Ambient working temperature | | °C | -10 to + 50 |
| Modulation capability | | kHz | 150 Stereo, 180 Mono/MPX |
| Pre-emphasis mode | | µS | 0, 50 (CCIR), 75 (FCC) |
| Spurious & harmonic suppression | | dBc | <75 (80 typical) |
| Asynchronous AM S/N ratio | Referred to 100% AM, with no de-emphasis | dB | ≥ 65 (typical 70) |
| Synchronous AM S/N ratio | Referred to 100% AM, FM deviation 75 kHz by 400Hz sine, without de-emphasis | dB | ≥ 50 (typical 60) |
| MONO OPERATION | | | |
| S/N FM Ratio | RMS @ ± 75 kHz peak, HPF 20Hz - LPF 23 kHz, 50 µS de-emphasis | dB | > 80 (typical 85) |
| | Qpk @ ± 75 kHz peak, CCIR weighted, 50 µS de-emphasis | dB | >73 |
| | Qpk @ ± 40 kHz peak, CCIR weighted, 50 µS de-emphasis | dB | >68 |
| Frequency Response | 30Hz ÷ 15kHz | dB | better than ± 0.5 dB (typical ± 0.2) |
| Total Harmonic distortion | THD+N 30Hz ÷ 15kHz | % | < 0.1 (Typical 0.07%) |
| Intermodulation distortion | Measured with a 1 KHz and 1.3 KHz tones, 1:1ratio, at FM 75 kHz | % | < 0.02 |
| MPX OPERATION | | | |
| Composite S/N FM Ratio | RMS @ ± 75 kHz peak, HPF 20Hz - no LPF, 50 µS de-emphasis | dB | > 80 (typical 85) |
| Frequency Response | 30Hz ÷ 53kHz | dB | ± 0.2 |
| | 53kHz ÷ 100kHz | dB | ± 0.5 |
| Total Harmonic Distortion | THD+N 30Hz ÷ 53kHz | % | < 0.1 |
| | THD+N 53kHz ÷ 100kHz | % | < 0.15 |
| Intermodulation distortion | Measured with a 1 KHz and 1.3 KHz tones, 1:1, modulation at FM 75 kHz | % | < 0.05 |
| Stereo separation | 30Hz ÷ 53kHz | dB | > 50 dB (typical 60) |
| STEREO OPERATION | | | |
| Stereo S/N FM Ratio | RMS @ ± 75 kHz peak, HPF 20Hz - LPF 23 kHz, 50 µS de-emphasis, L & R demodulated | dB | > 75 (78 typical) |
| | Qpk @ ± 75 kHz peak, CCIR weighted, 50 µS de-emphasis, L & R demodulated | dB | > 65 dB |
| | Qpk @ ± 40 kHz peak, CCIR weighted, 50 µS de-emphasis, L & R demodulated | dB | > 58 dB |
| Frequency Response | 30Hz ÷ 15kHz | dB | ± 0.5 |
| Total Harmonic Distortion | THD+N 30Hz ÷ 15kHz | % | < 0.05 |
| Intermodulation distortion | Measured with 1 KHz and 1.3 KHz tones, 1:1 ratio, modulation at FM 75 kHz | % | ≤ 0.03 |
| Stereo separation | | dB | > 50 (typical 55) |
| Main / Sub Ratio | 30Hz ÷ 15kHz | dB | > 40 (typical 45) |
| SCA OPERATION | | | |
| Frequency response | 40kHz ÷ 100kHz | dB | ± 0.5 |

These are general specifications. They show typical values and are subject to change without notice.

CE 99/5/CE Rev.: 02/2005

| Parameters | Conditions | U.M. | Value |
|----------------------------------|----------------------------------|-----------|---|
| AUDIO INPUTS | | | |
| Left & Right / MPX Balanced | Type | | XLR Female, balanced or externally unbalanced |
| | Impedance | Ohm | 10 k or 600 selectable on rear panel through dip-switches |
| | Input Level / Adjust | dBu | -13 to +13 continuously variable |
| MPX Unbalanced | Type | | BNC unbalanced |
| | Impedance | Ohm | 10 k or 50 selectable on rear panel through dip-switches |
| | Input Level / Adjust | dBu | -13 to +13 for 75 KHz FM, externally adjustable |
| RDS / SCA | Type | | 2 x BNC, unbalanced |
| | Impedance | Ohm | 10 k |
| | Input Level / Adjust | dBu | - 3 to +13 for 7,5 KHz FM, externally adjustable |
| OUTPUTS | | | |
| RF Output | Impedance | Ohm | 50 (N Female) |
| RF Monitor | Impedance | Ohm/Level | 50 (BNC Female, approx. - 30 dB) |
| Pilot Output | for synchronisation of RDS Coder | Ohm/Level | >5 k Ohm / 1 Vpp |
| MPX Monitor | Output Level | dBu | 0 |
| AUXILIARY CONNECTIONS | | | |
| Interlock | Connector | | BNC |
| RS232 and RS485 Serial Interface | Connector | | DB9 F (*) |
| Remote & Telemetry Interface | Connector | | DB15F |
| VARIOUS | | | |
| Cooling | | | Forced, with internal fan |
| Acoustic Noise | | dBa | < 58 |
| STANDARD COMPLIANCE | | | |
| Safety 7 Spectrum Optimization | | | EN60215 / ETS 300 447 |
| EMC | | | EN 301 489-11 V1, 2, 1 |

These are general specifications. They show typical values and are subject to change without notice.

CE 99/5/CE Rev.: 02/2005

