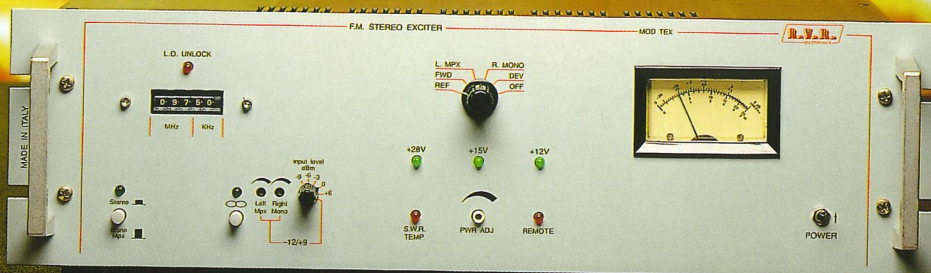


TEX 20 NV Mono MPX FM Exciter 87.5-108 MHz range



TEX 20 NV/S Stereo FM Exciter 87.5-108 MHz range



TEX 20 NV TEX 20 NV/S

TEX 20 NV e TEX 20 NV/S Features

- 1 Instant front panel programmability in 10 KHz increments
- 2 Soft-start from R.F. mute status
- 3 Adjustable power output from 0 to 20 W with automatic power control maintaining the output at any preset level
- 4 Main parameters available also on rear terminal board for remote control
- 5 Compatibility with external references for custom phase locking in synchronous applications
- 6 Meets or exceeds all FCC and CCIR requirements
- 7 High reliability provided by conservatively rated components
- 8 Modular layout with plug-in, easy replaceable circuits and parts
- 9 24 V DC capability
- 10 Built-In stereo coder for TEX 20 NV/S version

TEX 20 NV e TEX 20 NV/S Caratteristiche

- 1 Programmazione facile e diretta della frequenza, tramite Thumbweel-Switches Step 10 KHz
- 2 Controllo automatico di potenza
- 3 Potenza di uscita regolabile da 0 a 20 Watt
- 4 Disponibile con 3 ingressi SCA e uscite di tutti i parametri fondamentali di funzionamento per eventuali tele-controlli
- 5 Componenti standard facilmente sostituibili
- 6 Specifiche conformi alle normative FCC e CCIR
- 7 Alta affidabilità assicurata dal sovradimensionamento dei componenti
- 8 Realizzazione del cablaggio interno tramite flat-cables e connettori
- 9 Possibilità di funzionamento a 24 V DC
- 10 Stereo coder incorporato per la versione TEX 20 NV/S

TEX 20 NV e TEX 20 NV/S Caractéristiques

- 1 Programmation facile et directe de la fréquence par Thumbweel-Switches
- 2 Contrôle automatique de puissance
- 3 Puissance de sortie réglable de 0 à 20 W
- 4 Disponible avec 3 entrées SCA et sorties de tous les paramètres fondamentaux de fonctionnement pour d'éventuels télécontrôles
- 5 Composants standard facilement remplaçables
- 6 Specifications conformes ou supérieures aux normes FCC et CCIR
- 7 Haute fiabilité grâce à un surdimensionnement des composants
- 8 Réalisation du câblage interne par Flat-Cables et connecteurs
- 9 Possibilité de fonctionnement à 24 VDC
- 10 Codificateur stéréo incorporé pour le TEX 20 NV/S

AMPLIFIERS
TRANSMITTERS
ANTENNAS
ACCESSORIES

TECHNICAL SPECIFICATIONS **TEX 20 NV e TEX 20 NV/S**

- Rated output power: 0-20 W continuously variable (A.L.C.)
- R.F output connector: "N" type
- R.F output impedance: 50 Ohm
- Frequency range: 87.5 MHz to 108 MHz
- Frequency programmability: direct from front panel in 10 KHz increments
- Frequency stability: ± 1 ppm from -10°C to 50°C
- Modulation type: direct carrier frequency modulation
- Spurious & Harmonic suppression: meets or exceeds all FCC and CCIR requirements
- Modulation capability: meets or exceeds all FCC and CCIR requirements
- Asynchronous AM S/N ratio: 70 dB below reference carrier with 100% amplitude modulation at 400 Hz. Without de-emphasis no FM modulation present
- Synchronous AM S/N ratio: 55 dB or better below reference carrier with 100% amplitude modulation at 400 Hz. Without de-emphasis, FM modulation = +75 KHz at 400 Hz less than 0.1% (typical 0.05%) measured with a 3.18 KHz square wave and a 15 KHz sine wave at 100% modulation
- Preemphasis: for FCC 75 microsec, for CCIR 50 microsec
- AC power source: 110-130 V, 50-60%
198-250 V, 50-60%
- Alternate DC power source: 24 VDC, 4 A
- Power consumption: approx 130 W from AC
- Panel size: 483 mm (19")W x 88 mm (3 1/2")H for TEX 20 NV
483 mm (19")W x 132.5 mm (5.2")H for TEX 20 NV/S
- Overall depth: 327 mm (13") for TEX 20 NV
340 mm (13.6") for TEX 20 NV/S
- Weight: 7 Kg for TEX 20 NV
13 Kg for TEX 20 NV/S
- Ambient temperature range: -10 °C to 50 °C

Composite operation

- Composite inputs: 4 total, 1 for MPX and 3 for SCA
- MPX input for TEX 20 NV: 1 unbalanced BNC connector
- MPX input for TEX 20 NV/S: 1 balanced or unbalanced XLR connector
- MPX input impedance: 10 KOhm
- MPX input level for TEX 20 NV: 0 dBu (775 mVrms=2.2 Vpp)
- MPX input level for TEX 20 NV/S: adjustable from +9 to -12 dBm
- Composite FM S/N ratio: > 75 dB below ± 75 KHz deviation at 400 Hz measured in a 30 Hz to 100 KHz bandwidth with 50-75 microsec de-emphasis (RMS)
- Composite amplitude response: ± 0.8 dB from 30 Hz to 100 KHz
- Composite total harmonic distortion: less than 0.1% (0.05% typical)
- Composite intermodulation distortion: 0.05% or less measured with a 1 KHz and a 1.3 KHz tones, 1:1 ratio, at 100% modulation

- Stereo separation: > 45 dB (50 dB typical) for TEX 20 NV
> 50 dB (60 dB typical) for TEX 20 NV/S
- Crosstalk: main to stereo subchannel and stereo subchannel to main 55 dB (60 dB typical) 3 unbalanced BNC type 10 KOhm
- SCA input: 0 dBu (775 mVrms=2.2 Vpp) nominal for ± 7.5 KHz deviation adjustable
- SCA connector: ± 0.8 dB, from 40 KHz to 100 KHz
- SCA input impedance: 67 KHz SCA to main or to stereo subchannel 65 dB
- SCA input levels: 92 KHz SCA to main or to stereo subchannel 70 dB

Monaural operation

- Audio input impedance: 600 Ohm balanced or unbalanced
- Audio input connector: BNC type for TEX 20 NV
XLR type for TEX 20 NV/S
- CMRR: 50 dB
- Audio input level for TEX 20 NV: 0 dBm (775 mVrms=2.2 Vpp) for ± 75 KHz, adjustable from +9 to -12 dBm for ± 75 KHz, adjustable
- Audio input level for TEX 20 NV/S: > 70 dB below + 75 KHz deviation at 400 Hz measured in a 30 Hz to 20 KHz bandwidth with 50-75 microsec de-emphasis (RMS)
- FM S/N ratio for TEX 20 NV: > 75 dB below + 75 KHz deviation at 400 Hz measured in a 30 Hz to 20 KHz bandwidth with 50-75 microsec de-emphasis (RMS)
- FM S/N ratio for TEX 20 NV/S: > 75 dB below + 75 KHz deviation at 400 Hz measured in a 30 Hz to 20 KHz bandwidth with 50-75 microsec de-emphasis (RMS)
- Audio frequency response: ± 0.8 dB, from 20 Hz to 15 KHz
- Total harmonic distortion: less than 0.1% (0.05% typical)
- Intermodulation distortion: 0.05% or less, measured with a 1 KHz and a 1.3 KHz tones, 1:1 ratio, at 100% modulation

Stereo operation (only TEX 20 NV/S)

- Audio input impedance left/right: 600 Ohm balanced or unbalanced
- Audio input connector: XLR connector
- Audio input level: from +9 to -12 dBm for ± 75 KHz, adjustable
- Total harmonic distortion: less than 0.07% (0.05% typical)
- Audio amplitude response: ± 0.3 dB, 40 Hz to 10 KHz
 ± 0.6 dB, 30 Hz to 15 KHz
> 55 dB, 60 Hz to 10 KHz
> 50 dB, 30 Hz to 15 KHz
- Stereo separation: > 75 dB left/right channel measured in a 30 Hz to 15 KHz bandwidth with 50-75 microsec de-emphasis (RMS)
- Composite FM S/N ratio: > 75 dB left/right channel measured in a 30 Hz to 15 KHz bandwidth with 50-75 microsec de-emphasis (RMS)



EMC/97/032

Options

- /02 SCA Inputs & Telemetry connections (for TEX 20 NV)
- /03 External 24 V DC Battery
- /04 High Stability of Frequency



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>

AMPLIFIERS • TRANSMITTERS • ANTENNAS • ACCESSORIES

These specifications are therefore subject to change without notice. Per esigenze tecnico-costruttive ci riserviamo il diritto di apportare varianti ai prodotti, senza preavviso.

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