



Stereo FM Exciter 87.5-108 MHz range

AMPLIFIERS
TRANSMITTERS
ANTENNAS
ACCESSORIES



TEX 300
TEX 300/S

EXCITERS

TEX 300 • TEX 300/S
Features

- 1 Instant front panel programmability in 10 KHz increments
- 2 Soft-start from R.F. mute status
- 3 Adjustable power output from 10 to 300W 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 Built-In stereo coder

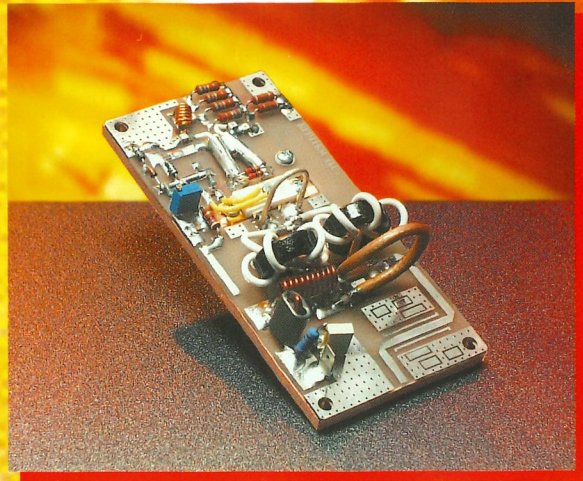
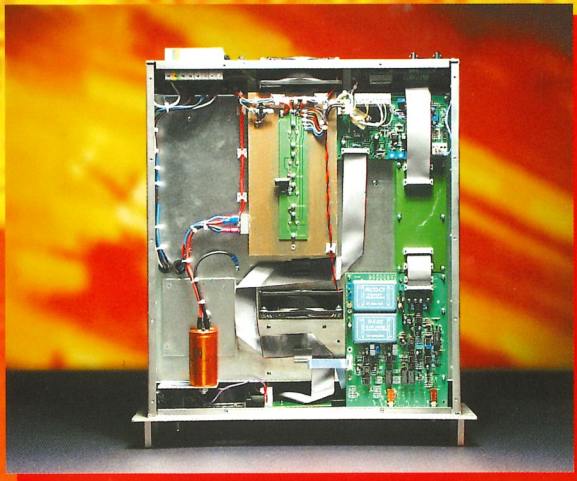
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Caratteristiche

- 1 Programmazione facile e diretta della frequenza, tramite Thumbweel-Switches Step 10 KHz
- 2 Controllo automatico di potenza
- 3 Potenza di uscita regolabile da 10 a 300 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 Stereo coder incorporato

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Caractéristiques

- 1 Programmation facile et directe de la fréquence par Thumbweel-Switches
- 2 Contrôle automatique de puissance
- 3 Puissance de sortie réglable de 10 à 300 W
- 4 Disponible avec 3 entrées SCA et sorties de tous les paramètres fondamentaux de fonctionnement pour d'éventuels télé-contrôles
- 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 Codificateur stéréo incorporé

Broadcast
EQUIPMENT



TECHNICAL SPECIFICATIONS **TEX 300 • TEX 300/S**

- Rated output power: 10-300 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: better than ± 100 Hz
- 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: 60 dB below reference carrier with 100% amplitude modulation at 400 Hz. Without de-emphasis, FM modulation = ± 75 KHz at 400 Hz less than 0.1% measured with a 3.18 KHz square wave and a 15 KHz sine wave at 100% modulation (typical 0.05%)
- Transient intermodulation distortion:
- AC power source: 117 or 230 V, $\pm 10\%$ 50-60 Hz, single phase
- Available transformer taps: 100, 120, 220 and 240 V
- Power consumption: approx 600 VA from AC
- Panel size: 483 mm (19") W x 132,5 mm (5,2") H (3 standard rack spaces high)
- Overall depth: 504 mm (19,84")
- Ambient temperature range: -10° to 50° C
- Preemphasis: for FCC 75 microsec., for CCIR 50 microsec.

Composite operation

- Composite inputs: 4 total, 1 for MPX and 3 for SCA
- MPX input: 1 balanced or unbalanced XLR connector
- MPX input impedance: 10 KOhm
- MPX input level: adjustable from +9 to -12 dBm nominal for ± 75 KHz deviation adjustable

- 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: ± 0.5 dB, 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 > 45 dB (50 dB typical)
- Stereo separation: 3 unbalanced BNC connectors
- SCA inputs: 10 KOhm
- SCA input impedance: 10 KOhm
- SCA input levels: 0 dBu (775 mV rms 2,2 Vpp) nominal for ± 7.5 KHz deviation, adjustable ± 0.5 dB, 40 KHz to 100 KHz
- SCA amplitude response: ± 0.5 dB, 40 KHz to 100 KHz

Monaural operation

- Audio input impedance: 600 Ohm balanced or unbalanced XLR connector 50 dB common mode suppression adjustable from +9 to -12 dBm for ± 75 KHz, adjustable
- Audio input level: adjustable from +9 to -12 dBm for ± 75 KHz, adjustable
- FM S/N ratio: > 80 dB below ± 75 KHz deviation at 400 Hz measured in a 30 Hz to 15 KHz bandwidth with 50-75 microsec. de-emphasis (RMS) ± 0.5 dB, 30 Hz to 15 KHz
- Audio frequency response: ± 0.5 dB, 30 Hz to 15 KHz
- Total harmonic distortion: 0.05% or less, measured with a 1 KHz
- 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 300/S version)

- Audio input impedance left/right: 600 Ohm balanced or unbalanced XLR connector
- Audio input level: adjustable from +9 to -12 dBm
- Total harmonic distortion: less than 0.07% (0.05% typical)
- Audio amplitude response: ± 0.3 dB, 30 Hz to 15 KHz
- Stereo separation: > 45 dB (55 dB typical)
- Composite FM S/N ratio: > 75 dB below ± 75 KHz deviation at 400 Hz measured in a 30 Hz to 100 KHz



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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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