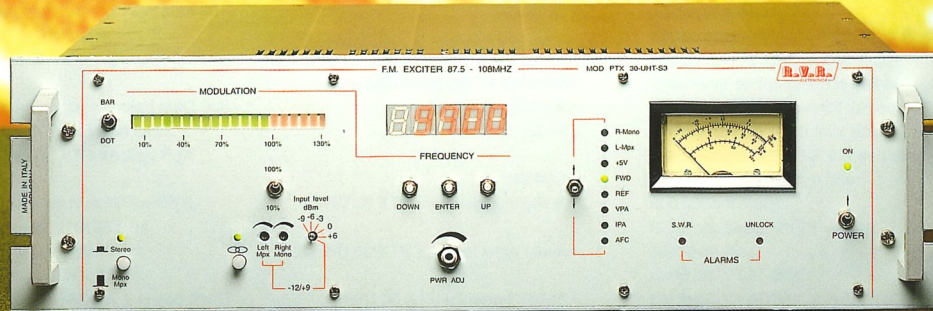


PTX 30 UHT Mono MPX FM Exciter 87.5-108 MHz range



PTX 30 UHT/S3 Stereo FM Exciter 87.5-108 MHz range

AMPLIFIERS
TRANSMITTERS
ANTENNAS
ACCESSORIES

EXCITERS



PTX 30 UHT PTX 30 UHT/S3

PTX 30 UHT e PTX 30 UHT/S3 Features

- 1 Direct and easy frequency programmability through microprocessor controlled 10 KHz steps
- 2 Excessive SWR automatic protection with R.F. power cutback and indicator light
- 3 0 to 30 W adjustable output power with automatic power level control
- 4 Expanded reflected power scale
- 5 Display of all operating parameters: forward power, reflected power, D.C. voltages, P.A. current, PLL voltage
- 6 Remote controlled R.F. mute, compatible with all types of external requirements
- 7 Led modulation meter with peak indicator and expanded scale for stereo or SCA subcarrier readings
- 8 Selectable linear input or 15 KHz. lowpass filter mono input
- 9 Wideband MPX input > 100 KHz
- 10 Available with RS232 interface for frequency programmability and R.F. mute
- 11 Available with three additional SCA inputs and rear terminal board with all main parameters
- 12 Modular layout with internal flat cables and connectors
- 13 Built-In stereo coder for PTX 30 UHT/S3

PTX 30 UHT e PTX 30 UHT/S3 Caratteristiche

- 1 Programmazione e controllo della frequenza facile e diretta tramite microprocessore con step di 10 KHz standard
- 2 Protezione automatica SWR eccessivo con limitazione di potenza in uscita e segnalazione ottica
- 3 Potenza di uscita regolabile da 0 a 30 Watt con controllo automatico di livello
- 4 Scala espansa per la lettura della potenza riflessa
- 5 Multimetro per la lettura dei parametri di funzionamento quali: tensioni interne, corrente stadio finale potenza diretta e riflessa, tensione del PLL
- 6 Blocco della potenza di uscita tramite comandi esterni compatibili con tutti i tipi di protezioni esterne di eventuali stadi amplificatori
- 7 Indicatore di deviazione a barra di led con rilevatore di picco con espansore della scala per visualizzazione del livello di sottoportanti (stereo e/o SCA)
- 8 Filtro passa basso: 15 KHz selezionabile in ingresso mono e/o lineare
- 9 Ingresso lineare con banda passante superiore a 100 KHz
- 10 Disponibile con porta di comunicazione seriale RS 232 per cambio frequenza a distanza e blocco RF
- 11 Predisposto per ulteriori 3 ingressi SCA e uscite dei parametri di funzionamento
- 12 Realizzazione del cablaggio interno tramite flat-cables e connettori
- 13 Stereo coder incorporato per la versione PTX 30 UHT/S3

PTX 30 UHT e PTX 30 UHT/S3 Caractéristiques

- 1 Programmation facile et directe de la fréquence par microprocesseur de 10 KHz steps standard
- 2 Protection automatique contre l'excès de SWR avec limitation de puissance à la sortie et voyants d'intervention
- 3 Puissance de sortie réglable de 0 à 30 Watts avec ALC
- 4 Système de mesurage pour la lecture de la puissance réfléchie
- 5 Multimètre pour la lecture des paramètres de fonctionnement tels que: voltage interne, P.A. courant, puissance directe et réfléchie, voltage du PLL
- 6 Blocage de la puissance de sortie par des commandes extérieures compatibles avec tous les types de protections extérieures d'éventuels proces amplificateurs
- 7 Indicateur de déviation par barre de led avec "absolute value peck" pour la lecture de niveau des sous-porteurs stereo et/ou SCA
- 8 Passe-bas filtre: 15 KHz sélectionnable en entrée mono et/ou lineaire
- 9 MPX entrée avec passe-bande >100 KHz
- 10 Disponible avec entrée de communication sérielle RS 232 pour changement de fréquence à distance et blocage RF
- 11 Prévu pour 3 entrées SCA et sorties ultérieures des paramètres de fonctionnement
- 12 Réalisation du cablage intérieur par flat-cables et connecteurs.
- 13 Codificateur stéréo incorporé pour le PTX 30 UHT/S3

**Broadcast
EQUIPMENT**

TECHNICAL SPECIFICATIONS PTX 30 UHT e PTX 30 UHT/S3

- Rated output power: 0-30 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
- Transient intermodulation distortion: 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, 50-60Hz
198-250 V, 50-60Hz
- Power consumption: approx 180 W from AC
- Panel size: 483 mm (19")W x 88 mm (3 1/2")H for PTX 30 UHT
483 mm (19")W x 132.5 mm (5.2")H for PTX 30 UHT/S3
- Overall depth: 327 mm (13") for PTX 30 UHT
340 mm (13.6") for PTX 30 UHT/S3
- Weight: 8 Kg for PTX 30 UHT
13 Kg for PTX 30 UHT/S3
- Ambient temperature range: -10 °C to 50 °C

Composite operation

- Composite inputs: 4 total, 1 for MPX and 3 for SCA
- MPX input for PTX 30 UHT: 1 unbalanced BNC connector
- MPX input for PTX 30 UHT/S3: 1 balanced or unbalanced XLR connector
- MPX input impedance: 10 KOhm
- MPX input level for PTX 30 UHT: 0 dBu (775 mVrms=2.2 Vpp) nominal for ± 75 KHz deviation adjustable from +9 to -12 dBm
- MPX input level for PTX 30 UHT/S3: adjustable from +9 to -12 dBm for ± 75 KHz deviation
- 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 from 30 Hz to 100 KHz
- Composite total harmonic distortion: less than 0.05% (0.02% 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 PTX 30 UHT
> 50 dB (60 dB typical) for PTX 30 UHT/S3
- Crosstalk: main to stereo subchannel and stereo subchannel to main 55 dB (60 dB typical)
- SCA input: 3 unbalanced
- SCA connector: BNC type
- SCA input impedance: 10 KOhm
- SCA input levels: 0 dBm (775 mVrms=2.2 Vpp) nominal for ± 7.5 KHz deviation adjustable ± 0.5 dB, from 40 KHz to 100 KHz
- SCA amplitude response: 67 KHz SCA to main or to stereo subchannel 65 dB
- Crosstalk: 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 PTX 30 UHT
XLR type for PTX 30 UHT/S3
- CMRR: 50 dB
- Audio input level for PTX 30 UHT: 0 dBm (775 mVrms=2.2 Vpp) for ± 75 KHz, adjustable from +9 to -12 dBm for ± 75 KHz, adjustable
- Audio input level for PTX 30 UHT/S3: adjustable from +9 to -12 dBm for ± 75 KHz, adjustable
- FM S/N ratio for PTX 30 UHT: > 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 PTX 30 UHT/S3: > 80 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: ± 0.5 dB, from 20 Hz to 15 KHz
- Total harmonic distortion: less than 0.05% (0.02% 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 PTX 30 UHT/S3)

- 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 0.05% (0.02% typical)
- Audio amplitude response: ± 0.3 dB, 40 Hz to 10 KHz
 ± 0.6 dB, 30 Hz to 15 KHz
- Stereo separation: > 55 dB, 60 Hz to 10 KHz
> 50 dB, 30 Hz to 15 KHz
- Composite FM S/N ratio: > 80 dB left/right channel measured in a 30 Hz to 15 KHz bandwidth with 50-75 microsec de-emphasis (RMS)
> 66 dB left/right channels, 50 microsec de-emphasis, KuPk detector, CCIR weighted and unweighted filter.
Ref = 40 KHz peak deviation

Options

- /01 RS232 Serial Interface
- /02 SCA Inputs & Telemetry connections (for PTX30-UHT)
- /04 High Stability of Frequency



EMC/97/027

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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.