

FEATURES

THE TU3 is an FM stereo tuner of the highest quality being designed to visually complement the Perreaux SA3-SM3-PMF1850-PMF3150 range of products. It has been constructed from the highest quality materials to exacting standards using precision built hand selected and tested components. Gold plated output sockets are used to maintain optimum conductivity and resistance to corrosion.

R.F. STAGE: The mos fet equipped front end has five varicap tuned sections resulting in very high immunity to overload and low intermodulation distortion.

TUNING: The TU3 employs the very best of digital and analog tuning features: microprocessor controlled digital tuning for extreme accuracy with phase locked loop to eliminate drift which is pulse regulated by a manual tuning system with detents for positive station selection. Each detent moves the tuned frequency exactly 100kHz up or down.

I.F. STAGE: The I.F. stage has "linear phase" filters and three limiters. The design as used in the TU3 provides wide band performance with absolute minimum phase shift. This enables the wide band quadrature detector to minimise harmonic distortion and maximise audio output quality.

DE-MULTIPLEXER: The phase locked loop stereo decoder utilises the minimum phase and harmonic distortion characteristics of the previous sections and is responsible for stereo output and separation. Incorporated in the decoder is a switchable de-emphasis facility, necessary to accurately match the transmitter applied pre-emphasis which varies from country to country. Applying the correct amount of de-emphasis ensures an excellent frequency response, another feature of the TU3.

STEREO/MONO/MUTING CIRCUIT: When set in stereo mode the muting circuit is activated cutting out inter station noise whilst changing signals. If you encounter weak or noisy stations set to mono/mute off mode. This allows the TU3 to deliver mono output from stations otherwise impossible to receive.

MEMORY: The TU3 has six preset memories and a last station memory, both of which are preserved by a two stage power back up memory protection circuit. The TU3 has been aesthetically designed to blend into the home environment. The performance and reliability are the results of quality materials, solid construction and dedicated craftsmanship.

SPECIFICATIONS

TUNING RANGE: 87.9MHz – 107.9MHz.

ANTENNA INPUT: 75 ohms Unbalanced.

USABLE SENSITIVITY: 12.8dBf (1.2uV).

50dB QUIETING SENSITIVITY: Mono 17.3dBf (2uV), Stereo 36.8dBf (19uV).

S/N (@ 65dBf): Mono 70dBA, Stereo 68dBA.

DISTORTION (@ 65dBf): Mono 0.12% THD MAX, Stereo 0.14% THD MAX.

FREQUENCY RESPONSE (Ref 1kHz): 30Hz – 15kHz \pm 0.5dB.

STEREO SEPARATION (@ 1kHz): 50dB.

AM SUPPRESSION: 50dB.

IMAGE REJECTION: 90dB.

I.F. REJECTION: 95dB.

ALTERNATE CHANNEL SELECTIVITY: 45dB.

CAPTURE RATIO: 1.5dB.

OUTPUT VOLTAGE (@ 100% Modulation): 350mV.

DE-EMPHASIS: 25uS, 50uS, 75uS (Switchable).

POWER REQUIREMENTS: 110v-120v, 220v-240v Ac 50/60Hz, 10 watts.

DIMENSIONS: 483mm (19") WIDE, 45mm (1 $\frac{3}{4}$ ") HIGH, 331mm (13") DEEP.

SHIPPING WEIGHT: 5.5kg (12 lbs).

All specifications subject to change without notice.

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