



MODEL 8921 HIGH-STABILITY 19kHz TIMEBASE GENERATOR

Features and Benefits

- High-stability timebase for Booster/Reciter system synchronization
- ± 2 PPM per year accuracy
- Easily interfaced with popular stereo generators
- Meter oscillator output for confirmation and test
- Wide operating temperature range

General Description

The Model 8921 provides a highly stable timebase reference to synchronize a Reciter output in booster applications. Precise frequency synchronization of an FM Booster/Reciter with the main transmitter Reciter eliminates heterodyne between the co-channel transmitters. The 19 kHz pilot frequency can be used to phase lock the Reciters because it is generated from a high stability oven-controlled crystal oscillator. The Model 8921, when properly interfaced with a conventional stereo generator, provides this extremely stable reference for phase locking the carrier of the Reciters. Modification instructions are available from TFT for interfacing with popular FM stereo generators.

Specifications:

19 kHz Output	19 kHz sinewave, adjustable from 0.3 Vp-p to 3.0 Vp-p, less than 0.2% THD
760 kHz Output	DC or AC coupling to the output is internally jumper selectable. DC coupling is TTL or CMOS compatible, output level is adjustable from 0.3 Vp-p. AC coupling can drive any impedance greater than 50 ohms. Output impedance is approximately 100 ohms. Output level is adjustable from 0.5 Vp-p to 1.5 Vp-p into a 50 ohm load.
Frequency Stability	0.038 Hz (± 2 PPM) 0°C to +50°C
Aging Rate	± 2 PPM per year
Connectors	BNC, rear panel

Master Oscillator Monitoring Output:

Frequency	15.2 MHz standard, other frequencies are optional
Frequency Stability & Aging Rate	Same as 19 kHz output
Output Impedance	1K ohms
Output Level	1.5 Vp-p into 100K ohms
Connector	BNC, front panel

General:

Input Power	110/220 VAC, 50-60 Hz, 20 Watts
Operating Temperature Range	0°C to +50°C
Dimensions	1.75" (4.5 cm) H x 19" (48.2 cm) W x 11" (28 cm) D for rack mount
Weight	4 lbs (1.8 Kg) net.