

**BEXT**

**P10**  
 10 Watts, Portable  
 Frequency Agile  
 FM Transmitter  
 (unit for mobile use)

- Includes low pass/harmonic filter, and can be used as a stand-alone transmitter
- Instant front panel programmability in 100 kHz increments
- Extremely compact and lightweight
- 12V DC operation
- Switchable composite or direct microphone input
- Low power consumption
- Meets or exceeds all FCC and CCIR requirements
- Ideal portable unit for emergency backup and solar or battery powered operation

**Rated Output Power:**

2.5 /10W switchable  $\pm 10\%$  dependent on and proportionate to supplied DC voltage (12 to 13.8V DC allowable)

**Ambient Temperature Range:** 0° to 45° C (32° to 113° F)

**Pre-emphasis:**

For FCC, 75  $\mu$ sec  
 For CCIR, 50  $\mu$ sec

**Audio Inputs:**

One XLR male balanced or unbalanced, switchable by internal jumper, which can be used either for composite/wideband operation or microphone operation (switchable from front panel). Approximate input level for composite/wideband operation, 3.5 V p-p (1.237 Vrms / 4.1 dBm) for 100% modulation. Unit has built-in mic pre-amp and limiter. Approximate input level for microphone use: 0.25 mVrms for 100% modulation. Total deviation is adjustable from the front panel.

**RF Output Connector/Impedance:**

"N" type female, 50 ohm

**Frequency Range:**

87.5 MHz to 108 MHz

**Frequency Programmability:**

Direct from front panel in 100 kHz increments plus internal jumper for 50 kHz increments

**S/N Ratio:**

> 70 dB below  $\pm 75$  kHz deviation at 400 Hz measured in a 30 Hz to 20 kHz bandwidth with 75  $\mu$ sec de-emphasis (RMS)

**Frequency Stability:**

Better than  $\pm 500$  Hz

**Spurious & Harmonic Suppression:**

Meets or exceeds all FCC and CCIR requirements

**Modulation Capability:**

Meets or exceeds all FCC and CCIR requirements

**Amplitude Response:**

$\pm 0.5$  dB or better, 30 Hz to 15 kHz  
 $\pm 1$  dB or better, 30 Hz to 100 kHz

**Total Harmonic Distortion:**

0.5% or better

**AM Noise Parameters (also affected by the DC power source used):**

Asynchronous AM S/N Ratio: Better than 75 dB below reference carrier with 100% amplitude modulation at 400 kHz, without de-emphasis, FM modulation  $\pm 75$  kHz at 400 Hz

Synchronous AM S/N Ratio: Better than 60 dB below reference carrier with 100% amplitude modulation at 400 kHz, without de-emphasis, FM modulation  $\pm 75$  kHz at 400 Hz

**Dimensions:**

145 mm x 70 mm x 330 mm (5 3/4" x 2 3/4" x 13 1/4")

**DC Power Requirements:**

12 to 13.8 V DC, 2.2 A (approx.) at 10 W or 1.3 A (approx.) at 2.5 W (Note: unit for 12 V. DC only, no AC)

**Stereo Separation:**

40 dB or better

**Weight:**

2.7 Kg (6 lbs)