## Bid Specifications for Telex SoundMate Single-Channel Personal FM Receiver SR-50

## **1. General Description**

The Personal FM Receiver is designed for use in auditory assistance and personal communication applications. The Personal FM Receiver provides amplification for mild to severe hearing losses. Persons with normal hearing, when used with an appropriate listening accessory may also use the Personal FM receiver.

The Single -Channel Personal FM Receiver must be available in the17 narrow band hearing assistance channels in the 72-76 MHz.

## 2. Single-Channel Personal FM Receiver

- 1. Must be clearly marked with the appropriate channel the unit is set to receive.
- 2. Must have an advanced synthesized design which eliminates channel drift.
- 3. Must have top mounted, tactile-feel controls to make operating any function easy.
- 4. The Personal FM Receiver must run on 2 AA-size alkaline batteries (20 hrs. continuous use), or 2 Ni-MH batteries (14 hrs. continuous use).
- 5. Earphone jack must accept any standard 3.5 mm (0.138 inch) mini stereo or mono earphone/headphone.
- 6. The Personal FM Receiver must have a three year parts and labor warranty.

## 3. Specifications

**RF Frequency Range:** 72.1 - 75.9 MHz **Audio Response:** 100 - 10,000 Hz +/- 3 dB **Modulation:** FM, +/- 25 KHz deviation **Harmonic & Spurious Emissions:** Meets FCC part 15 **Sensitivity:** 0.5 μv typical, 1.0 μv maximum, 12 dB SINAD @ 25 KHz deviation **Image Rejection:** >65 dB **Signal-to-Noise Ratio:** >65 dB, **Distortion:** <2% T.H.D. **Audio Output:** @10% distortion ----- Into 8 Ohms--48 mW Into 32 Ohms--30 mW **Antenna Type:** 1/4 wave omni-directional, in earphone cord **Batteries:** 2 AA-size alkaline (20 hrs. continuous use), or 2 Ni-MH (14 hrs. continuous use) **Audio Controls:** Volume, On/Off **Earphone Connector Type:** 3.5 mm (0.138 inch) mini stereo or mono **Channels Available:** 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 74.7, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9

**Size:** 3.9 inches high x 2.7 inches wide x 1.0 inch thick (9.9 x 6.9 x 2.5 cm) excluding belt clip **Weight:** 4.8 oz. (136 grams) including batteries