

1.1 PRODUCT DESCRIPTION

The Series 1250 Transmitters are designed for body worn or concealment applications. The Series 1250 Transmitters include an internal microphone and have connectors for antenna and power as well an external microphone. In its basic, or naked, configuration, the user must connect antenna and power to the unit using the connectors.

RF CHARACTERISTICS

Channels:	One (1), Factory set
Channel Options Compatibility	
Channel A	Direct and rpeater
Channel B	Direct
RF Power Output	25mW
Frequency Stability	± 100 ppm @ -25°C to $+68^{\circ}\text{C}$
Spurious and Harmonic Attenuation	25dBc
Modulation	Direct sequence spread spectrum
PN Sequence Length	33,554,401 bits

ANTENNA

Naked Flatpack:	External, 50 Ω
Stand Alone:	Integral

AUDIO CHARACTERISTICS

Frequency Response:	± 6 dB, 300-5800 Hz
Mic Audio Processing:	Dual Time Constant AGC
Dynamic Range:	55 dB, minimum
Audio Encoding:	CVSD
Sampling Rate:	62.9 KHz
Data Scrambling:	13 bit linear auto key

MICROPHONE

Internal:	Knowles EK series
External:	input compatible with Knowles electret, such as EA or EK series

CONNECTIONS

Ext. Mic/Power:	Microtech DR-4S-4-PC
Shorting Plug:	Tibbets SP-1
Antenna:	MMCX Jack

POWER

<u>Naked Flatpack</u>	
Power Source:	External, 5.0 to 7.5 VDC @ 115 mA
<u>Stand Alone</u>	
Power Source:	One Mallory 7K-6V alkaline battery
Operating Time:	1.5 hours, typical

Power Source: 4 AAA alkaline battery
Operating Time: 6.5 hours, typical

With Model 1250-09 Power Converter

Power Source: External, 6 to 15 VDC, 65 mA @ 12 VDC, typical

SIZE

Naked Flatpack: 2.4" X 1.4" X 0.35"

Model 1250-05: 4.5" X 1.75" X 0.4"

Model 1250-45: 4" X 2.6" X 0.65"

ENVIRONMENTAL

Operating Temp.: -25° C to +68° C

Storage Temp.: -40° C to +85° C