



# MinusNine

## Digital Communications Systems

### *Sub-Miniature Digital Covert Receiver*



#### Features

Minute and Accurate Anatomic Profile  
AGC and Level Limited to 96dB\*  
Advanced DSP and Custom Software  
Colours: Beige, Mid Brown & Brown

\* Can be set to customer requirement

#### Applications

Security Forces Covert Operations  
Counter Terrorism Investigators  
Store Guards  
Broadcast Presenters

### GENERAL SPECIFICATIONS

This minute covert inductive listening device utilises digital technology and bespoke software to give outstanding speech quality, reduced interference levels and can be used in the left or right ear. It is anatomically profiled to fit deep into the ear canal making it discreet and secure. Special functions include soft-squelch, automatic gain control and low battery indicator. Factory set at 96dB SPL for all input conditions the MinusNine will provide intelligible communications at safe audio levels and alternative levels can be factory programmed. The MinusNine is robust and designed to operate in hostile environments and incorporates a user replaceable cerumen (earwax) filter system. Design emphasis has been placed on its ability to suppress inductive interference; typically from CAN bus networks in vehicles, TDMA noise from TETRA terminals and Cellphones as well as mains-borne noise from electric motors, neon signs and power lines.

Frequency Range	300-3000Hz
DSP Type	Custom Hybrid, DSP and EEPROM
Distortion	<10% @ 1kHz
Receiver	Magnetic
Maximum Output Sound Pressure Level (2cc coupler) @1kHz	96dB $\pm$ 2dB or preset to customer requirement
End of Battery Life	Audible Beep (6 beeps)
Battery	1.4 VDC A10 Zinc Air or Equivalent
Minimum Operating Voltage	1.1 VDC
Typical Battery Life (A10 Zinc Air)	>75 hours
Sensitivity (Standard)	66dB@1kHz $\pm$ 3dB/10mA/M
Amplifier	Digital Hybrid with custom Hardware, Firmware & Software
Size	Nominal max: Length:15mm x Width:8mm
Weight (including battery)	1.20 grams
Operating Temperature Range	-10°C to +40°C
Cerumen Filter Type	Replaceable Mesh Filter
Colour Options	Beige, Mid Brown, Dark Brown.
Custom Fit Option	Available at additional charge. Ear impressions required.
Quiescent noise	< 35dB
CE Conformity	89/336/EWG-Electromagnetic Compatibility
ROHS & WEE	ROHS: Compliant. WEE: Compliant