

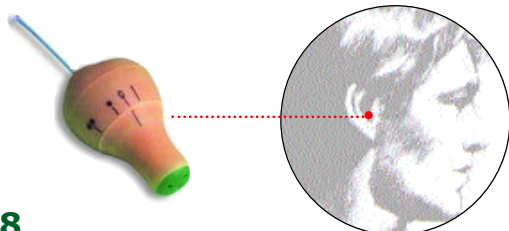
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WIRELESS SYSTEMS FOR COMMUNICATIONS

wireless-communication systems

MicroEar TALK-BACK SYSTEMS



CMR 38

CMR 38

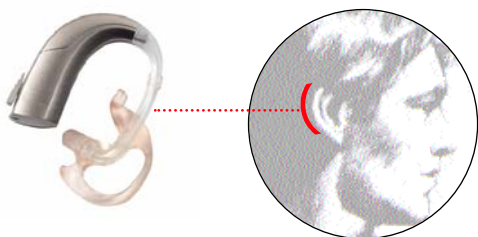
MicroEar (in ear) VHF receiver

- VHF band (140 ÷ 250 MHz)
- 1 fixed frequency

CMR 38-HV

MicroEar "high volume" (in ear) VHF receiver

- VHF band (140 ÷ 250 MHz)
- 1 fixed frequency
- New audio amplifier design, assuring high listening power.



CMR 40

CMR 40

MicroEar BTE (Behind The Ear) VHF receiver

- VHF band (140 ÷ 250 MHz)
- 1 fixed frequency
- Very high sensitivity and large operation range
- Excellent audio quality
- Long battery life



CST 38

CTK 38

MicroEar transmitter for both "desktop" and "in 19"/1U rack" use

- VHF band (140 ÷ 250 MHz)
- 16 switchable frequencies
- High output power (300 mW)
- It assures the top receiving quality from *MicroEar* receivers thanks to the special audio treatment of the modulation.
- Provided with PTT (Push To Talk) and (optional) VOX (Voice-controlled operation).

The CTK 38 "desktop" system is composed by:

- ⇒ CST 38, VHF transmitter
- ⇒ PSP 910, mains-connector power-supply
- ⇒ AWN 38, VHF whip antenna (or other type)



CTK 383

CTK 383

"3 transmitters multiple" in 19"/1U rack-frame multi-channel modular transmitter system

The CTK 383 "desktop" system is composed by:

- ⇒ CST 38, (max 3) VHF transmitters
- ⇒ RST 373, 19"/1U rack-frame with mains power-supply
- ⇒ AGN10-V (one for each transmitter), VHF antennas (or other type)

MicroEar TALK-BACK SYSTEMS

CST 38 MicroEar VHF TRANSMITTER for both "desktop" and "in 19"/1U rack" use



- Switchable channels : 16, preset in the 140 ÷ 250 MHz range [1].
- Switching-window : 10 MHz.
- Frequencies : microprocessor controlled PPL synthesizer circuit, with 25 kHz minimum step. They can be easily reprogrammed by DOS-PC and optional "UPK 32 Programming kit".
- Frequency error : < ±5 ppm, in the rated temperature range.
- Temperature range : -10 ÷ +55 °C.
- RF output power : 300 mW (± 1 dB) [1].
- RF output impedance : 50 ohm (type N-F connector).
- Spurious emissions : ⇒ harmonic = <250 nW,
⇒ other = <90 dBc.
- Transmission activation : remote PTT (Push To Talk) circuit, wired to rear 7/8" (6.3 mm) standard jack connector. The transmission is allowed when the central pin (hot) is connected to external ring (ground). When the plug is not inserted, the transmission is still activated. Optionally, the TSC38 can be supplied with VOX circuit (voice-controlled operation).
- Modulation : FM, linear (peak deviation = ±5 kHz).
- Mod. audio input : transformer balanced, floating.
- Mod. audio input level : Micro/Line switchable, and adjustable:
⇒ Micro = -64 ÷ -34 dBu (0.5 ÷ 15 mV)
⇒ Line = -22 ÷ +8 dBu (60 ÷ 1,950 mV).
- Audio input impedance : ⇒ Micro = > 2 kohm,
⇒ Line = > 10 kohm.
- Peak-limiter : automatic, with > 30 dB overload capability over the nominal modulation.
- NR system : compressor circuit with noise-gate, specially adapted to the **MicroEar** receivers.
- AF bandwidth : 200 Hz ÷ 5 kHz (-3 dB).
- Distortion : < 0.5 % (0.25% typ.).
- S/N/D ratio : > 80 dB (83 dB typ.), CCITT measured.
- LED indications : ⇒ Transmitter On (red LED)
⇒ Limiter On (yellow LED).
- Power : ⇒ 10.5 ÷ 16 Vdc, 300 mA max.(neg. ground);
⇒ mains 100 ÷ 240 Vac
(with optional power supply)
- Dimensions : 40 x 120 x 175 mm.
- Weight : 700 g approx.

NOTE [1]: according to local regulations

OPTIONAL ACCESSORIES:

- AMN 05-V - VHF magnetic-base antenna (5 m cable).
- CDC 150 - External 12 Vdc feeding cable (150 cm)
- UPK 32 - Working frequencies user programming kit
- VXX xx - Carrying case for customer's system (on request)

To employ the CST 38 transmitter as "desktop" unit, you need:

PSP 910 - MAINS-CONNECTOR POWER SUPPLY

- Power : 100 ÷ 240 Vac / 20 VA max.
- Output power : 12 Vdc / 700 mA max.
- Size : 70 x 40 x 25 mm.
- Weight : 150 g.

AWN 38-V - VHF WHIP ANTENNA

- Connector : N-M type, right angle.

To employ the CST 38 transmitter as "in 19"/1U rack-frame" unit, you need:

RST 373 - 19"/1U RACK-FRAME

(for max. 3 x CST 38 units), with built-in:
MAINS POWER SUPPLY MODULE

- Power : 230 Vac / 30 VA max.
- Output power : 12 Vdc / 1.4 A max.
- Size / Weight : 19"/1U - 300 mm depth. / 2.0 kg. approx.

AGN 10-V - VHF GROUNDPLANE ANTENNA

- Radiation/Polarization : omnidirectional/vertical
 - Connector : N-F type
 - Body size [3] : diameter = 78 mm max - length = 73 mm.
 - Weight [3] : 0.4 kg approx.
 - Mounting system : 3/8" standard screw
 - Supplied cable : RG213 type (10 m) with N-M connectors
- NOTE [3]: except radiant elements.

CMR 38 - MicroEar VHF TALK-BACKRECEIVER

- Channel : 1, preset in the 138 ÷ 190 MHz range
- Receiver type : single conversion superheterodyne.
- Modulation : narrowband FM (peak deviation = 5 kHz).
- Adjacent channel rejection : > 50 dB (150 kHz spacing).
- Sensitivity : < 2 mV/m, for 10 dB SINAD
- Antenna : internal, magnetic.
- Battery : zinc-air, type A10 (230) - 1.3 V.
- Battery life : 15 to 30 hrs.
- Current consumption : 1.5 mA @ 1.2 V (squelch ON).
- Audio bandwidth : 200 Hz ÷ 4 kHz.
- Distortion THD : < 3% (FM dev. = 3 kHz @ 1 kHz).
- Audio output power max : ⇒ 103 dB SPL
(with FM dev. = 3kHz @ 1kHz) ⇒ 114 db SPL ("high volume" version).
- Speaker type : electromagnetic.
- Size : 17.5 x 11 x 5 mm.
- Weight : 1.4 g (battery included).

CMR 40 - MicroEar BTE VHF TALK-BACK RECEIVER

Same specifications as for CMR 38, except

- Battery : zinc-air, type 13 HPX - 1.4 V.
- Battery life : 150 h Stand by/ 80 h On.
- Current consumption @1.2V : 1.5 mA squelch-On / 3.0 mA squelch-Off.
- Audio bandwidth : 200 Hz ÷ 5 kHz.
- Audio output power max : ⇒ 103 dB SPL
(with FM dev. = 3kHz @ 1kHz) ⇒ 115 db SPL ("high volume" version).
- Weight : 5.8 g (earpiece & battery included).



subject to change without notice