

Statement of PR-75a Receiver's Incapability to Receive Any Cell Phone Signals from Public Mobile Services Under FCC Part 22

The PR-75a personal receiver is designed to operate in the 72-76 MHz band and is based on the Philip's TDA 7021T integrated radio receiver circuit for portable FM band radios where a minimum of periphery is important. This integrated radio receiver I.C. is limited by design to have a maximum RF input operating frequency acceptance of only 110 MHz, and has no active component circuit in front of this I.C. With extreme input level, the second and third harmonic from LO circuit can cause the receiver to respond, but the level must be above 10 mV of R.F. input before detection will occur. This is over 75 dB above the normal R.F. input where detection occurs to produce a 12 dB SINAD signal. An investigative search for responses in the public mobile radiotelephone service 800 to 900 MHz range with R.F. input signal as high as 100 mV did not result in any kind of response at all.

It is therefore the opinion of COMTEK's engineering department that the PR-75a cannot be altered by the user or anyone else to ever be capable of receiving transmissions from the cellular radiotelephone service in the frequency range covered by the channels provided under Part 22 of FCC regulations.

By

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