

Abstracts

Dual 5 MHz PCS receiver front end

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The American Personal Communications Service (PCS) uplink spectrum is divided into 6 frequency bands located between 1850 MHz and 1910 MHz. One of the consequences of this frequency division is that a single service provider can have multiple non-adjacent frequency bands in the same region. STI has developed and built a dual 5 MHz front-end system for PCS base stations. Each channel in the system consists of two double-diplexed 5 MHz wide band pass filters and a balanced cryogenic low noise amplifier (LNA). Each pseudo-elliptic band pass filter consists of 8 resonators and two cross-coupling paths.

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