

Narrowband Filter and Annular Slot Antenna for PCS Applications

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A new narrowband filter has been developed for PCS applications. This filter has a 0.2 dB passband ripple bandwidth of 0.568% and is 60% smaller than the normal parallel coupled design. The filter can be integrated with the microstrip feedline of a novel annular slot antenna (ASA). The ASA has a 4.5% bandwidth and a planar structure. This antenna can be conveniently located on the chassis of a mobile PCS unit.

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