Abstracts

Compact Transmitting Dielectric Resonator Filter Using Capacitive Loaded Dual Mode Method for PCS Microcellular Base Station

J. Hattori, H. Kubo, S. Abe, T. Nishiyama and Y. Ishikawa. "Compact Transmitting Dielectric Resonator Filter Using Capacitive Loaded Dual Mode Method for PCS Microcellular Base Station." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1631-1634.

This paper describes a compact transmitting bandpass filter using dielectric resonators for PCS microcellular base station. We propose new size reduced capacitive loaded TM dual mode resonators that consist of monoblock high K ceramics. The electrical performance of the flter constructed by these resonators is designed by using dual mode dielectric transmission line method. A six pole bandpass filter at 1.9GHz band is manufactured. It has center frequency of 1.87GHz, low insertion loss of 1. 1dB and small dimensions of 20x20x60 mm.

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