

Abstracts

800MHz High Power Duplexer Using TM Dual Mode Dielectric Resonators

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A novel small sized high power duplexer in 800 MHz band has been developed by using whole monoblock TM/sub 110/ dual mode dielectric resonators. Insertion loss is less than 0.35 dB over 20 MHz bandwidth in TX filter, and less than 0.47 dB over 40 MHz bandwidth in RX filter.

Volume is less than 3000 cm³ which corresponds to about 20% of re-entrant cavity resonator filter. This duplexer is useful for current and future cellular base stations.

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