Abstracts

A Miniaturized Dielectric Monoblock Duplexer Matched by the Buried Impedance Transforming Circuit

H. Matsumoto, T. Tsujiguchi and T. Nishikawa. "A Miniaturized Dielectric Monoblock Duplexer Matched by the Buried Impedance Transforming Circuit." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1539-1542.

A dielectric monoblock duplexer as surface mount device is realized by using the stepped impedance resonators and the buried impedance transforming circuit. The RF leakage is suppressed because the whole outside wall of the filter is covered with plating electrode. The volume of the trial filter for 800MHz mobile telephone terminal is less than 3.9cm^3. The insertion loss and attenuation of transmitting filter are 1.6dB and 53dB, and these of receiving filter are 2.3dB and 56dB.

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