Abstracts

Dielectric High-Power Bandpass Filter Using Quarter-Cut TE/sub 01delta/ Image Resonator for Cellular Base Stations (1987 Vol. I [MWSYM])

T. Nishikawa, K. Wakino, K. Tsunoda and Y. Ishikawa. "Dielectric High-Power Bandpass Filter Using Quarter-Cut TE/sub 01delta/ Image Resonator for Cellular Base Stations (1987 Vol. I [MWSYM])." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 133-136.

A dielectric high-power bandpass filter using "Quarter-cut TE/sub 01delta/ Image Resonators" has been developed. This resonator construction has a high unloaded Q over 7000 and also provides a sufficient thermal diffusion path to the metal housing. The insertion loss and the attenuation level of the 8-Pole elliptic function type filter are 0.37 dB and 95 dB respectively. The physical size of the dielectric filter is 280x135x65 (mm), one third to one fifth the volume of conventional cavity resonator filters.

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