

Abstracts

Dielectric Resonator Output Multiplexer for C-Band Satellite Applications

W.C. Tang, J. Sferrazza, B. Beggs and D. Siu. "Dielectric Resonator Output Multiplexer for C-Band Satellite Applications." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 343-345.

A 3-channel C-band manifold-coupled multiplexer using dielectric-loaded filters has demonstrated a viable approach for future satellite output multiplexer. The new multiplexer configuration utilizes dual- and triple-mode dielectric resonator filters coupled onto a ridged waveguide manifold. This design offers significant size and weight reduction while preserving the optimum electrical performance. It is therefore expected that this new output multiplexer design will be used for future C-band satellite systems.

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