

Abstracts

A Dielectric Resonator Filter as Low Loss Delay Element for 14 GHz On-Board 4/spl 0slash/- DCPSK Demodulation

L. Accatino and A. Angelucci. "A Dielectric Resonator Filter as Low Loss Delay Element for 14 GHz On-Board 4/spl 0slash/- DCPSK Demodulation." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 405-407.

A new implementation of a 16.7 ns delay element for on-board regenerative satellite repeaters is presented. The use of high Q dielectric resonator delay filters allows a significant insertion loss reduction with respect to known microstrip solutions, full compatibility with other microstrip circuitry being still maintained. The reduced loss permits some critical demodulator specifications to be substantially relaxed.

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