

## All GFEC Dual Mode Quasi Elliptic Multiplexers for Satellite Transponders

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This paper describes lightweight GFEC 4 GHz multiplexer, consisting of dual mode quasi elliptic filters mounted on a waveguide manifold. These filters are for use in communications satellites to meet the high performance requirements with state-of-the-art technology. Experimental results of a typical channel are given, and spurious performance of these filters is discussed. Thermal results of the filters indicate an average frequency shift of about 0.5 MHz over 50°C.

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