

Abstracts

A Reactive Fourth-Harmonic Filter Operating at 400-kW CW

H.J. Mohr. "A Reactive Fourth-Harmonic Filter Operating at 400-kW CW." 1978 Transactions on Microwave Theory and Techniques 26.5 (May 1978 [T-MTT] (Special Issue on High-Power Microwaves)): 341-345.

A reactive fourth-harmonic filter operating at a fundamental power level of 400-kW CW is described. The filter, used in the NASA Deep Space Instrumentation Facilities, operates in an S-band (WR-430) waveguide run and it effectively attenuates the fourth harmonic of the fundamental transmit frequency near 2.1 GHz by a minimum of 40 dB. The design approach including power handling capability considerations is presented. Also included are some details of mechanical construction, tuning procedures, and results achieved.

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