

# Abstracts

## Dual Mode Canonical Waveguide Filters (1977 [MWSYM])

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*A.E. Atia and A.E. Williams. "Dual Mode Canonical Waveguide Filters (1977 [MWSYM])." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 397-399.*

This paper presents a new dual mode circular waveguide cavity structure which realizes the general class of coupled cavity transfer functions. Included are the exact elliptic function response and the linear phase and arbitrary phase responses. Experimental data taken on 4- and 8-pole narrowband elliptic function filters centered at approximately 4 GHz are described and shown to correlate well with theory.

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