# Abstracts

## Stop-band improvement of rectangular waveguide filters using different width resonators: selection of resonator widths

*M. Morelli, I. Hunter, R. Parry and V. Postoyalko. "Stop-band improvement of rectangular waveguide filters using different width resonators: selection of resonator widths." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1623-1626 vol.3.*

Rectangular waveguide resonators having different widths can be mixed in order to improve the stopband performance of band-pass filters. Two effective procedures for the choice of the resonator widths are presented and implemented to realise X-band 6-cavity filters which hold 30 dB of attenuation over a frequency range 40% wider than a standard filter. Theoretical and experimental results are shown and commented on.

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