Abstracts

Novel tunable waveguide backshort for millimeter and submillimeter wavelengths

V.S. Mottonen, P. Piironen and A.V. Raisanen. "Novel tunable waveguide backshort for millimeter and submillimeter wavelengths." 2001 Microwave and Wireless Components Letters 11.9 (Sep. 2001 [MWCL]): 370-372.

A new tunable waveguide backshort with low loss and reliable performance has been designed. Based on a fixed short and dielectric phase shifter, it has a simple structure which is easy to design and fabricate. These properties make it a sound alternative for millimeter- and submillimeter-wave applications. A W-band (75-110 GHz) backshort has been designed and tested showing excellent performance with a return loss of less than 0.21 dB.

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