

# Abstracts

## Double Ridged Waveguide Phase Shifters for Broadband Applications (1993 Vol. I [MWSYM])

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*E.-B. El-Sharawy. "Double Ridged Waveguide Phase Shifters for Broadband Applications (1993 Vol. I [MWSYM])." 1993 MTT-S International Microwave Symposium Digest 93.1 (1993 Vol. I [MWSYM]): 473-476.*

This paper presents an electromagnetic mode matching analysis of dual ridged waveguide phase shifters. The waveguide is loaded with a high dielectric material between the ridges and the troughs are filled with ferrite toroids. The present structure offers nearly twice the bandwidth and less variation in nonreciprocity versus frequency as compared to the conventional dual toroidal phase shifter.

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