

# Abstracts

## A New Reciprocal Phaser for Use at Millimeter Wavelengths (Correspondence)

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*L.R. Whicker and C.R. Boyd, Jr.. "A New Reciprocal Phaser for Use at Millimeter Wavelengths (Correspondence)." 1971 Transactions on Microwave Theory and Techniques 19.12 (Dec. 1971 [T-MTT] (1971 Symposium Issue)): 944-945.*

A new reciprocal dual-mode phaser for use at millimeter wavelengths is described. The new phaser is economical to fabricate and is geometrically well suited for use in phased array antennas. A 35-GHz model is described which exhibits a 2-GHz bandwidth. The model phaser may be utilized either as a 360° latching device by using flux transfer switching, or can provide up to 800° of differential phase shift with holding current bias. The nominal insertion loss of the phaser is 2 dB with a VSWR <1.3 across its bandwidth. The measured characteristics of the phaser show good agreement with computational values.

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