

Abstracts

Analysis of a Differential Phase Shifter

D.A. Ellerbruch. "Analysis of a Differential Phase Shifter." 1964 Transactions on Microwave Theory and Techniques 12.4 (Jul. 1964 [T-MTT]): 453-459.

This paper presents the theory and analysis of a ganged pair of "line stretcher" microwave phase shifters. The error analysis shows that some of the errors inherent in a single phase shifter of this type can be reduced through the use of a differential system; however, the magnitudes of other errors may more than offset the reduction. Graphical data are included to facilitate the rapid determination of the limit of error for any specified angle measurement.

 [Return to main document.](#)