

Abstracts

Broadband stripline balun using quadrature couplers (Correspondence)

S. Walker. "Broadband stripline Balun Using Quadrature Couplers (Correspondence)." 1968 *Transactions on Microwave Theory and Techniques* 19.2 (Feb. 1968 [T-MTT]): 132-133.

Many new balun designs have been discussed in the literature in recent years. In most cases, a wide bandwidth has been a key design objective. The design to be discussed in this correspondence achieves this objective by exploiting the quadrature properties of stripline, parallel line directional couplers. Such quadrature couplers can be designed for extremely broad bands by the use of multiple sections. The design of the coupler used in the circuit described herein is covered fully by Shimizu and Jones and will not be repeated here. A schematic diagram of a balun using two 3-dB quadrature couplers is shown in Fig. 1. Its operation can be easily explained.

[Return to main document.](#)