

# Abstracts

## Analysis and Design of Kemp-Type 3 dB Quadrature Couplers (Short Papers)

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*J.L.B. Walker. "Analysis and Design of Kemp-Type 3 dB Quadrature Couplers (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.1 (Jan. 1990 [T-MTT]): 88-90.*

An analysis is presented of the Kemp et al. type of 3 dB quadrature coupler. A table of element values is given for three-, five-, and seven-section couplers for various ripple levels. It is shown that the Kemp approach overcomes the tight coupling problem associated with the Cristal and Young method, but that it introduces a bandwidth contraction penalty.

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