Abstracts

Decade Bandwidth Bias T's for MIC Applications up to 50 GHz (Short Papers)

B.J. Minnis. "Decade Bandwidth Bias T's for MIC Applications up to 50 GHz (Short Papers)." 1987 Transactions on Microwave Theory and Techniques 35.6 (Jun. 1987 [T-MTT]): 597-600.

A new design of bias T is described capable of carrying direct currents (dc) of a number of amperes while operating over RF bandwidths of more than a decade. Realized in microstrip or stripline, a design can operate up to at least 50 GHz as either a stand-alone component or as part of a microwave integrated circuit (MIC). The bias T circuit has been treated as a combination of HP, BP, and LP filters, the BP filter forming the major part. Design of the filter is by an exact transfer function synthesis procedure involving the application of the Richards transformation.

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