

Theory and Design of Broad-Band Nongrounded Matched Loads for Planar Circuits (Short Papers)

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A filter theory approach is used for the synthesis of very broad-band resistive terminations with no direct grounding. The immediate use is in microwave integrated circuits (MIC's) where no holes or wraparound straps are desirable. Bandwidths achieved amount to 100 and 160 percent for networks of order 2 and 6, respectively. The total circuit lengths are λ and $3\lambda/2$ in these cases. This performance is superior to older designs where only 30-40 percent is obtained.

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