

عنوان مقاله:

High Power Division Ratio Dividers for Millimeter- Wave Applications

محل انتشار:

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خلاصه مقاله:

A novel power divider which can provide a high power division ratio is presented for millimeter-wave applications. Similar to conventional non-equal Wilkinson dividers, it consists of two section transmission lines (TL) with different characteristic impedances and one isolation resistor. But, a round inductor is used to make the high impedance TL implementable in MMIC fabrications. A 60 GHz divider with a large power-dividing ratio (1:9) has been designed and simulated in a standard 130 nm GaAs process. The results show that the structure can effectively be used as an arbitrary power division ratio divider.

کلمات کلیدی:

Wilkinson power divider, high power division ratio, GaAs, Inductor, 60 GHz

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