

## عنوان مقاله:

Optimization and Fully Distributed Analysis of Single Pole Single Throw Traveling Wave Switches at Millimeter Wave Frequency Band

## محل انتشار:

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## خلاصه مقاله:

In this paper, a fully distributed model for a single pole single throw traveling wave switch is introduced and important parameters of the switch such as insertion loss, isolation, and reflection coefficient are presented based on the lossy transmission line model of switch. The results of fully distributed model are compared with the semidistributed model's results and have good agreement with them. By applying the fully distributed model and calculating various switch's parameters as a function of the switch length and operating frequency, the optimum switch length and operating frequency are obtained versus the parameters of switch, especially the reflection coefficient and isolation in OFF and ON conditions.

## کلمات کلیدی:

Distributed structure, single pole single throw (SPST) switch, traveling wave switch (TWSW), lossy transmission line model, semi-distributed model

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1426582>

