

Abstracts

A single six-port based automated network analyzer

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A single six-port automated network analyzer (SPANNA) is developed built and tested over UHF, L and S band. The SPANNA includes a six-port junction operated as two differential channels receiver, and a test set which comprises a network of switches and directional couplers. By comparison to previous developed six-port based network analyzers, the SPANNA uses only one single six-port junction and can perform simultaneous power and S parameter measurements with adjusted test-port impedances.

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