

Abstracts

Accurate Coaxial Standard Verification by Multiport Vector Network Analyzer

A. Ferrero, F. Sanpietro and U. Pisani. "Accurate Coaxial Standard Verification by Multiport Vector Network Analyzer." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1365-1368.

We propose a new general formulation for calibrating a Multiport Network Analyzer (NWA), which requires at least only one fully known two port standard and one partially known load (i.e. a sliding load). In principle, since only one fully known two port component is required, the multiport NWA should reach an accuracy higher than an ordinary two-port NWA whose calibration relies on more than one standard. Experimental results confirm the high accuracy of the multiport ($n \Rightarrow 3$) NWA, through the verification of commercially available two port standards.

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