

## Accurate Coaxial Standard Verification by Multiport Vector Network Analyzer

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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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