

# Abstracts

## Vertical balun and Wilkinson divider

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A. Darwish, A. Ezzeddine, H.C. Huang, K. Bumman, L. Joonyoul, Y. Sungwhan, M. Mah and J. Cook. "Vertical balun and Wilkinson divider." 2002 MTT-S International Microwave Symposium Digest 02.1 (2002 Vol. I [MWSYM]): 109-112 vol. 1.

We report the development of a novel broadband 3D vertical balun exhibiting superior performance due to ground plane removal and unique 3D features. The balun offers  $\pm 5$  degrees phase and  $\pm 0.5$  dB amplitude imbalance, from 2.0-2.7 GHz. In addition, we present the performance of a 3D X-band 4-way Wilkinson divider.

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