

Abstracts

A V-Band Network Analyzer/Reflection Test Unit

L.T. Yuan, G.M. Yamaguchi and J.E. Raue. "A V-Band Network Analyzer/Reflection Test Unit." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 221-223.

This paper describes the design, fabrication and performance of a novel V-band network analyzer/reflection test unit which is capable of operation over a wide frequency range in the 50 to 75 GHz band. The broadband performance of the reflection test unit design results in a continuous measurement over a 10 GHz band with a single sweep. The reflection test unit, utilizing a matched pair of wideband crossbar mixers, features high tracking ability, low source reflection coefficient (i.e., <0.08) and high system directivity (i.e., >31 dB).

 [Return to main document.](#)