

Abstracts

Design of Stable Broadband Tunnel-Diode Amplifiers

J.H. Lepoff. "Design of Stable Broadband Tunnel-Diode Amplifiers." 1964 PTGMTT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 165-168.

The design method described here establishes the desired gain at band edges and relies on the symmetry of the circuit reactance characteristic to maintain the gain over the entire band. A design for the 4 Gc to 5 Gc band resulted in a theoretical peak gain of 13 db when the gain at band edges was set at 11 db. Another design for the 5 Gc to 6 Gc range had a peak gain of 15 db.

 [Return to main document.](#)