

## Chair-Barrier Varactors on GaAs for Frequency Triplers

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K. Krishnamurthi, R.G. Harrison, H.C. Liu, M. Buchanan, Z.R. Wasilewski and J.R. Thompson.  
*"Chair-Barrier Varactors on GaAs for Frequency Triplers."* 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. 1 [MWSYM]): 313-316.

Earlier single-barrier varactors (SBV) had low Q because of leaky barriers. By placing a thin AlAs layer in the center of an Al/sub 0.4/Ga/sub 0.6/As barrier and using In/sub 0.2/Ga/sub 0.8/As spacers we increase the effective barrier height, thereby achieving SBVs with both high Q and good capacitance-modulation characteristics.

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