

Abstracts

Varactor Q Measurement (Comments)

E.W. Sard and J.M. Roe. "Varactor Q Measurement (Comments)." 1972 Transactions on Microwave Theory and Techniques 20.6 (Jun. 1972 [T-MTT]): 420-421.

In the above letter, and in a previous one by Houlding it has been stated that less than six parameters are sufficient to characterize a lossy two-port network coupling into a varactor junction. It is my contention, however, that erroneous conclusions can thereby be drawn as to the varactor's Q. Specifically, Roe's method will be applied to a theoretical varactor and shown to give ambiguous results, which are attributed to Roe's use of less than six parameters to describe the lossy coupling network.

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