

Abstracts

Measurement of Microwave Loss Tangent by Means of Microwave Resonator Bridge (Comments)

K. Watanabe. "Measurement of Microwave Loss Tangent by Means of Microwave Resonator Bridge (Comments)." 1978 Transactions on Microwave Theory and Techniques 26.4 (Apr. 1978 [T-MTT]): 314-315.

In the above paper, Kneppo and Weis claim that the microwave resonator bridge (MRB) is a new and highly sensitive method for measuring dielectric losses of materials. Contrary to their belief, the principles of measurement are not new but have already been reported in [1] and [2]. Especially, the system arrangement described in [2] is the same as that of MRB, except that the former uses a shutter in tandem with a matched termination as a reference load of the bridge, while the latter uses a reference resonator. Thus the point in question is whether or not this replacement of the reference load improves the sensitivity of the bridge.

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