

Band Transition Noise Measurements of Gas Discharge Noise Sources (Correspondence)

K.W. Olson. "Band Transition Noise Measurements of Gas Discharge Noise Sources (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.9 (Sep. 1968 [T-MTT] (Special Issue on Noise)): 797-797.

A method is described for establishing the excess noise ratio of a gas discharge noise source in a waveguide band for which a known output source is not available. The unknown waveguide bands are covered using "inter-band" or "cross-band" tubes. The method includes noise comparisons, hot insertion loss measurements, and corrections from tube-in-mount noise to tube-only noise in both bands. The errors are discussed.

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