

# Abstracts

## An Active "Cold" Noise Source

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*R.H. Frater and D.R. Williams. "An Active "Cold" Noise Source." 1981 Transactions on Microwave Theory and Techniques 29.4 (Apr. 1981 [T-MTT]): 344-347.*

An active circuit which behaves like a "cold" noise source is described. The circuit which uses a gallium arsenide FET is given the name COLFET. The appropriate theory is developed and practical circuits described using the circuit. Equivalent noise temperatures of less than 50 K have been measured for a 50-omega source at 1400 MHz.

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