

Abstracts

An Active "Cold" Noise Source

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-ohm source at 1400 MHz.

 [Return to main document.](#)