

# Abstracts

## An Exact Expression for the Noise Resistance $R_{\text{n}}$ for the Hawkins Bipolar Noise Model

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*R.A. Pucel and U.L. Rohde. "An Exact Expression for the Noise Resistance  $R_{\text{n}}$  for the Hawkins Bipolar Noise Model." 1993 Microwave and Guided Wave Letters 3.2 (Feb. 1993 [MGWL]): 35-37.*

A much used noise model for the bipolar transistor is that based on Hawkins formulation. The model, however lacks an expression for the noise resistance. An exact analytic expression, based on the noise correlation matrix approach, is developed for the noise resistance for this noise model.

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