

# Abstracts

## Noise Design of Active Feedback Resonator BEF (Dec. 1993 [T-MTT])

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Y. Ishikawa, S. Yamashita and S. Hidaka. "Noise Design of Active Feedback Resonator BEF (Dec. 1993 [T-MTT])." 1993 Transactions on Microwave Theory and Techniques 41.11 (Dec. 1993 [T-MTT] (1993 Symposium Issue)): 2133-2138.

Active feedback resonator (AFR) filters can be used in design techniques for conventional passive microwave filters by introducing the noise temperature of a resonator. The noise figure (NF) of AFR filters can be analytically designed by using noise temperature. In this paper, three-pole AFR band elimination filter (BEF) is designed to evaluate the NF value. The measured results agree well with the theoretical values.

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