

Abstracts

Design Considerations of a 3.1 - 3.5 GHz GaAs FET Feedback Amplifier

L. Besser. "Design Considerations of a 3.1 - 3.5 GHz GaAs FET Feedback Amplifier." 1972 G-MTT International Microwave Symposium Digest of Technical Papers 72.1 (1972 [MWSYM]): 230-232.

Recent GaAs FET devices have exhibited promising capabilities for microwave amplification. Circuit designers, however, found two problems with the FET applications, namely, the characteristically high input/output impedances are difficult to match into a 50 Omega system and the potential instabilities that exists at frequencies below 4 GHz. This paper describes development work done on feedback circuits in designing an unconditionally stable FET amplifier in the 3.1 - 3.5 GHz frequency range by using conventional microstrip techniques, and also investigates the effect of feedback components on noise and output capabilities.

[Return to main document.](#)