

# Abstracts

## Miniature Spaceborne S and K/sub u/-Band Low Noise Amplifiers for TDRSS

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C. Allen, J. De Gruyl, P. Lombardo, E. Ng and H. Okean. "Miniature Spaceborne S and K/sub u/-Band Low Noise Amplifiers for TDRSS." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 386-389.

Light weight, miniature spaceborne parametric and transistor low noise amplifiers (LNA's) have been developed for TRW and Western Union for use in NASA's Tracking and Data Relay Satellite System (TDRSS). The S and K/sub u/-Band LNA's each employ a single stage parametric amplifier and provide state-of-the-art noise temperatures of less than 65K and 140K over their respective 2.2-2.3 GHz and 14.89-15.12 GHz frequency ranges.

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