Abstracts

Cryogenic 90 GHz Receiver for Airborne Radiometry

B. Vowinkel, J.K. Peltonen, W. Reinert, K. Gruner and B. Aumiller. "Cryogenic 90 GHz Receiver for Airborne Radiometry." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 21-23.

A cryogenic 90 GHz receiver has been developed that has a noise figure of 2.36 dB (DSB) with an instantaneous bandwidth of 1.2 GHz. The cooled front-end consists of a Schottky-barrier mixer with built-in GaAs FET IF amplifier. The system is small in size and has a relatively low weight, so that it can be used for airborne radiometry even in small aircrafts.

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