

Abstracts

A 0.9 mm Heterodyne Receiver for Astronomical Observations

N.R. Erickson. "A 0.9 mm Heterodyne Receiver for Astronomical Observations." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 438-439.

A complete receiver for astronomical observations in the 0.9 mm region is described. The mixer uses a 2μ Schottky diode in fundamental mode waveguide. The local oscillator from a BWO is injected into the mixer with a low-loss quasi-optical diplexer. Overall system sensitivity is about 4000-5000 K SSB, over the range of 318-348 GHz.

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