

Abstracts

85--115-GHz Receivers for Radio Astronomy

D.P. Woody, R.E. Miller and M.J. Wengler. "85--115-GHz Receivers for Radio Astronomy." 1985 Transactions on Microwave Theory and Techniques 33.2 (Feb. 1985 [T-MTT]): 90-95.

Low-noise receivers for radio astronomy have been built using Pb alloy superconducting tunnel junction mixers operating at 4.5 K. They have been used for 85-115-GHz astronomy with double-sideband receiver noise temperature between 70 and 200 K. Junction fabrication and receiver construction, operation, and performance are described herein.

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