

Abstracts

Low-Noise 50-58 GHz Mixers for Spacecraft Radiometers

W.J. Wilson and A.L. Riley. "Low-Noise 50-58 GHz Mixers for Spacecraft Radiometers." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 560-561.

Reliable low-noise millimeter-wave mixers have been designed and built for the TIROS satellite microwave sounder radiometers. This mixer design features a balanced microstrip circuit using packaged diodes and fixed-tuned backshorts. System noise figures of less than 5 dB (DSB) were achieved in the 50-58 GHz frequency range.

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