

Abstracts

Highly Reliable Low-Noise MM-Wave Mixers with Whisker-Contacted Honeycomb Diodes

J.H. Schroth. "Highly Reliable Low-Noise MM-Wave Mixers with Whisker-Contacted Honeycomb Diodes." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 451-453.

Single ended mixers at 94 GHz and 140 GHz with whisker-contacted honeycomb diodes have been realized. Environmental tests showed that the split block mixermount construction withstands shocks up to 1000 g/2 ms. Commercially available Mott-diodes have been used to obtain noise temperatures of 600°K (SSB) at 94 GHz and 250 uW L.O. drive.

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