

Abstracts

A Stabilized Broadband Correlator for Medical Microwave Thermography

J.C. Hill and R.B. Goldner. "A Stabilized Broadband Correlator for Medical Microwave Thermography." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 368-370.

A stabilized broadband summing microwave correlator is presented that has particular application to medical microwave thermography. A dual IF is employed to minimize long-term drifts resulting from antenna-source mismatch, RF amplifier gain drifts, and changes in uncorrelated background radiation. The correlation of the source is generated by means of a digital line stretcher, rather than antenna-source movement. Preliminary measurements using a low-temperature thermal source in air are presented.

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