Abstracts

Improved Response of Pyroelectric Millimeter Wave Detectors (Correspondence)

J.R. Alday, G.E. Everett and D.J. White. "Improved Response of Pyroelectric Millimeter Wave Detectors (Correspondence)." 1966 Transactions on Microwave Theory and Techniques 14.2 (Feb. 1966 [T-MTT]): 100-100.

Pyroelectric materials such as triglycine sulfate (TGS) and barium titanate have been investigated for possible use as millimeter and submillimeter wave detectors. The primary limitation of pyroelectric detectors appears to be its response time since its sensitivity is suitable for many applications, e.g., microwatt range at submillimeter wavelengths. The best reported response time thus far is on the order of 30 microseconds for TGS at room temperature.

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