

Abstracts

State of the Art in Microwave Acoustic Delay Devices

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This paper will discuss the state of the art of several types of microwave acoustic delay devices and although it will concentrate mostly in the L and S band frequencies much of the content is appropriate to frequencies as high as X band. The devices to be considered are non-dispersive delay lines, acousto-optical modulators, and dispersive delay devices. In general these devices use either magnetoelastic and magnetostatic propagation in ferromagnetic crystals such as yttrium iron garnet or pure acoustic propagation in a large variety of single crystal materials.

[Return to main document.](#)