

## Optimized SAW Spectral Control Filters for Digital Satellite Communications System

---

*N.G. Jones, R.A. Moore and C.J. Huber. "Optimized SAW Spectral Control Filters for Digital Satellite Communications System." 1981 Transactions on Microwave Theory and Techniques 29.5 (May 1981 [T-MTT] (Joint Special Issue on Surface-Acoustic-Wave Device Applications)): 451-456.*

A series of SAW filters with bandpass characteristics optimized for digital transmission has been developed for use in the Defense Satellite Communication System (DSCS). Features of the SAW filters, then implementations into the system, and results of system tests are described. A spectrum efficiency 30 percent greater than by competing techniques is achieved.

 [Return to main document.](#)