

# Abstracts

## A 12 GHz Low Cost Earth Terminal for Direct TV Reception from Broadcast Satellites (1977 [MWSYM])

---

*R.J. Douville. "A 12 GHz Low Cost Earth Terminal for Direct TV Reception from Broadcast Satellites (1977 [MWSYM])." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 427-429.*

A low-cost 12 GHz receiver for TV reception from high power broadcast satellites is described. The system uses a 1.2m antenna with a high efficiency feed positioned at the focus. The front end, mounted behind the feed, consists of an image-enhanced mixer, followed by a low noise amplifier. The 1.2 GHz IF output is fed to an indoor unit which uses SAW devices both for filtering and FM demodulation at 70 MHz. Audio and video receiver outputs go directly to the baseband circuitry of a standard TV receiver.

[Return to main document.](#)