

# Abstracts

## An ultra miniature isolator with broadband isolation using ferrite gyrator

---

*T. Okada, T. Makino, S. Shinmura, S. Hino, T. Nakada and H. Asai. "An ultra miniature isolator with broadband isolation using ferrite gyrator." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1183-1186 vol.2.*

An ultra miniature isolator, which we call a "buffer device", characterized in broadband isolation and with no battery power consumption, is developed. It consists of a ferrite plate and two wire windings. It provides an insertion loss of 1.5 dB at 2.52 GHz and an isolation of 20 dB or more over a frequency range of DC through 3.0 GHz. The size of the buffer devices is only 3.2/spl times/2.5/spl times/1.7 mm/sup 3/. It is designed to replace power consuming buffer amplifiers in CDMA, TDMA, and W-CDMA mobile phone handsets.

 [Return to main document.](#)