

# Abstracts

## 76 GHz post-wall waveguide fed parallel plate slot array with 45 degree linear polarization

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*J. Hirokawa and M. Ando. "76 GHz post-wall waveguide fed parallel plate slot array with 45 degree linear polarization." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1973-1976.*

We propose a new configuration of one radiating slot and two reflection-canceling slots for 45 degree linear polarization in post-wall waveguide fed parallel plate slot arrays. Uniform aperture field has been obtained in a 76 GHz model antenna with a 5 cm-square area. Cross polarization is suppressed below -26 dB in the boresight. A peak gain of 29.8 dBi is realized with 46.4% efficiency.

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