

# Abstracts

## Design of HNRD guide to E-plane waveguide transitions and directional couplers by transverse resonance technique

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*M. Kishihara, I. Ohta and K. Yamane. "Design of HNRD guide to E-plane waveguide transitions and directional couplers by transverse resonance technique." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 627-630 vol.2.*

The authors design two types of HNRD guide to rectangular E-plane waveguide transitions with a fractional bandwidth of 10 or more percent for -20 dB return loss and a directional coupler of HNRD-E-plane waveguide integrated structure on the basis of the transverse resonance technique (TRT). The theoretical results are in good agreement with results calculated by an EM-simulator (Ansoft HFSS).

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