



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

DEC 2 - 5, 2025 | ICC JEJU, Jeju Island, Korea

Session Title:	[WD1] Millimeter-Wave and Compact Antenna Technologies
Session Date:	December 3 (Wed.), 2025
Session Time:	13:20-15:00
Session Room:	Room D (Samda B)
Session Chair(s):	Jun Xu (Southeast University, China) Ken Kawamata (Tohoku Gakuin University, Japan)

[WD1-1] 13:20-13:40

A Basic Study on Beamforming Characteristics of a Partially Driven Array Antenna at 39 GHz for Reducing Total Power Consumption

Ho-Yu Lin and Yoshichika Ohta (Softbank Corp., Japan)

[WD1-2] 13:40-14:00

Miniaturized Millimeter-Wave Co-Linearly Polarized Patch Antenna with Dual Fence-Strip Resonators for in-Band Full-Duplex Applications

Li Qian, Jing Liu, Zhiqiang Yu and Jianyi Zhou (Southeast University, China)

[WD1-3] 14:00-14:20

Low-Cost Millimeter-Wave Circularly Polarized Antenna Array Using SICL Feeding Network

Xinyu Tong, Jun Xu, Hui Zhang, Xutao Yu and Liang Gao (Southeast University, China); Yifan Yin (Nanjing University of Posts and Telecommunications, China)

[WD1-4] 14:20-14:40

A Compact 30 GHz Millimeter-Wave Sensor for Precise Detection and Differentiation of Unifocal and Multifocal Breast Cancers

Kyrillos Youssef and Ahmed Hassan Abd El-Malek (Egypt-Japan University for Science and Technology, Egypt); Haruichi Kanaya (Kyushu University, Japan); Mohammed Abo-Zahhad (Egypt-Japan University for Science and Technology, Egypt)

[WD1-5] 14:40-15:00

Millimeter-Wave Wideband Dual-Polarized Antenna with High Port Isolation and Simple Structure

Sai Ma, Jun Xu, Kai Chen and Wei Hong (Southeast University, China)