



# APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

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

**Session Title:**

**[WB1] [SS] Innovative Front-End Components in mmWave IC Design**

**Session Date:**

**December 3 (Wed.), 2025**

**Session Time:**

**13:20-15:00**

**Session Room:**

**Room B (Halla B)**

**[WB1-1]**

**13:20-13:40**

**A D-Band CMOS Low-Noise Amplifier Using Complementary Feedback Techniques**

Ha-Neul Lee and Jong-Ryul Yang (Konkuk University, Korea (South))

**[WB1-2]**

**13:40-14:00**

**A Portable K-Band 4-D MIMO FMCW Radar System with Sparse Array for Short-Range Dual-Hand Gesture Sensing**

Jiayu Zhang, Yuchen Li, Zhiwei Zhang, Yiyao Cao, Changzhan Gu and Junfa Mao (Shanghai Jiao Tong University, China)

**[WB1-3]**

**14:00-14:20**

**A 127-GHz High-Efficiency Push-Push Oscillator Using Decoupled Harmonic Bypass Stub in 100-nm InP HEMT Technology**

Seungwoo Shim, Hyunjoon Kim and Sanggeun Jeon (Korea University, Korea (South))

**[WB1-4]**

**14:20-14:40**

**A Ku-Band CMOS Variable Gain Phase Shifter for Upper Mid-Band 6G Communication**

Eunchae Jo, Jinseok Park, Mingyu Lee, Haram Park, Hyeonwon Song, Eunsu Mo and Seungchan Lee (Chonnam National University, Korea (South)); Bonghyuk Park (ETRI, Korea (South)); Seunghun Wang and Hui Dong Lee (Electronics and Telecommunications Research Insti

**[WB1-5]**

**14:40-15:00**

**A Ka-Band Three-Way Doherty Power Amplifier in 150-nm GaN Technology**

Moise Safari Mugisho and Christian Friesicke (Fraunhofer IAF, Germany); Friedbert van Raay (IAF, Germany); Dirk Schwantuschke (Fraunhofer Institute for Applied Solid State Physics, Germany); Rüdiger Quay (Fraunhofer IAF, Germany)