



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

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

Session Title:	[TB4] Signal Generation & Frequency Conversion
Session Date:	December 4 (Thu.), 2025
Session Time:	15:40-17:20
Session Room:	Room B (Halla B)
Session Chair(s):	Chien-Nan Kuo (National Yang Ming Chiao Tung University, Taiwan) Sigang Ryu (Korea Aerospace University, Korea)

[TB4-1] [Invited]	15:40-16:00
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An Area-Efficient and Ultra-Low-Jitter Cascaded Wideband LO Generator

Jaehyouk Choi (Seoul National University, Korea (South))

[TB4-2]	16:00-16:20
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A 5.1% Efficiency, 2.1 dB Conversion Gain Buffer-Less E-Band Frequency Quadrupler with T-Coil Voltage Swing Optimization

Goeun Baek, Geonho Park, Kyunghwan Kim, Doyoon Kim, Jae-Hyun Park, Byeong-Taek Moon, Hyun-Chul Park and Chan-Hong Park (Samsung Electronics, Korea (South))

[TB4-3]	16:20-16:40
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A Cascadable 20-GHz Phase Shifter with Sub-0.15° Resolution in 130-nm BiCMOS

Georg Zachl (Johannes Kepler University Linz, Austria); Harald Pretl (Johannes Kepler Universität, Austria)

[TB4-4]	16:40-17:00
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A 930-GHz Triple-Push Oscillator Based on 250-nm InP HBT Technology

Heekang Son and Giyeong Nam (Korea University, Korea (South)); Doyoon Kim (Samsung Electronics, Korea (South)); Junghwan Yoo and Jae-Sung Rieh (Korea University, Korea (South))

[TB4-5]	17:00-17:20
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A 200-GHz Frequency Multiplier Chain in 28-nm CMOS Technology

Chien-Nan Kuo, I-Ming Ku, Fu-Qiun Huang and Yu-Shun Chen (National Yang Ming Chiao Tung University, Taiwan); Ping-Chun Hsieh (National Tsing Hua University, Taiwan)