



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

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

Session Title:	[TB3] Millimeter Wave and Sub-Terahertz Signal Sources
Session Date:	December 4 (Thu.), 2025
Session Time:	13:20-15:00
Session Room:	Room B (Halla B)

[TB3-1] [Invited]	13:20-13:40
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Resonant Tunneling Diodes for Terahertz Practical Applications

Safumi Suzuki (Institute of Science Tokyo, Japan)

[TB3-2]	13:40-14:00
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A 280-GHz Signal Source for FMCW Radar Systems Based on 28-nm CMOS Technology

Myeongjae Kim, Jaewon Jang, Wooyong Keum, Giyeong Nam and Jae-Sung Rieh (Korea University, Korea (South))

[TB3-3]	14:00-14:20
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High-Output-Power Sub-Harmonic Injection-Locked Colpitts Oscillator

Nicola Pelagalli (IHP - Leibniz Institute for High Performance Microelectronics, Germany);
Andrea Malignaggi (IHP, Germany); Corrado Carta (IHP - Leibniz Institut für Innovative
Mikroelektronik, Germany & Technische Universität Berlin, Germany)

[TB3-4]	14:20-14:40
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A 66-GHz/121-GHz Dual-Mode Distributed VCO in 250-nm InP HBT

Satoshi Kawahara, Teruo Jyo and Tsutomu Takeya (NTT Corporation, Japan); Hitoshi Wakita
(NTT, Japan); Munehiko Nagatani, Miwa Mutoh and Yuta Shiratori (NTT Corporation, Japan);
Hiroyuki Takahashi (NTT Device Technology Laboratories, Japan)

[TB3-5]	14:40-15:00
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A Low Power Colpitts VCO with High-Q Transistor-Controlled Capacitor for mm-Wave Applications

Yu-Teng Chang (National Taiwan Normal University, Taiwan); Hsing-Hung Lin and Chung-Ping Chen (National Taiwan University, Taiwan)