



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE
DEC 2 - 5, 2025 | ICC JEJU, Jeju Island, Korea

Session Title:	[TA4] Millimeter Wave Front-End Amplifiers
Session Date:	December 4 (Thu.), 2025
Session Time:	15:40-17:20
Session Room:	Room A (Halla A)
Session Chair(s):	Shawn S. H. Hsu (National Tsing Hua University, Taiwan) Bonghyuk Park (ETRI, Korea)

[TA4-1] [Invited]	15:40-16:00
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Power Panel: a Layer-Integrated Power and Control Infrastructure for Compact RF CMOS Circuits

Minoru Fujishima (Hiroshima University, Japan)

[TA4-2]	16:00-16:20
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A Compact 140 GHz PALNA for Wireless Transceivers in 40-nm Bulk CMOS

Jaegwan Kim, Jeongho Jang and Munkyo Seo (Sungkyunkwan University, Korea (South))

[TA4-3]	16:20-16:40
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A D-Band Low Noise Amplifier in 250nm Electronic Photonic Integrated SiGe

Deniz Tas (Fraunhofer EMFT, Germany); Kai Scheller (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Amelie Hagelauer (Fraunhofer, Germany); Marco Dietz (Fraunhofer EMFT, Germany); Robert Weigel (Friedrich-Alexander Universität Erlangen-Nürnberg, Germany)

[TA4-4]	16:40-17:00
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A 56-72 GHz Broadband Load-Modulated Balanced Amplifier in 0.1 μm GaAs pHEMT Technology

Zichun Zheng (Southeast University, China & Purple Mountain Laboratories, China); Peng Chen, Zhe Chen, Qi Wu, Zetao Zhan, Jixin Chen and Wei Hong (Southeast University, China)

[TA4-5]	17:00-17:20
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A 15.7-21.4 GHz Power Amplifier with 28.2-dBm P_{sat} and 33.1% PAE_{peak} in 0.18- μm GaAs pHEMT Process for 6G FR3 Applications

Chun-Wei Hsu, Yi-Qi Lin and Yunshan Wang (National Taiwan University, Taiwan); Chan-Shin Wu and Tzu-Hung Chen (Ultraband Technologies Inc., Taiwan); Huei Wang (National Taiwan University, Taiwan)