



APMC 2025

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

Session Title:	[TF3] RF and Antenna Technologies for Satellite Communications
Session Date:	December 4 (Thu.), 2025
Session Time:	13:20–15:00
Session Room:	Room F (302)
Session Chair(s):	Yasser Asrul Ahmad (International Islamic University Malaysia, Malaysia) Woo-Jin Byun (ETRI, Korea)

[TF3-1] [Invited] 13:20–13:40

Design Guidelines Using Groove Gap-Waveguide Technology for Realizing a Millimeter-Wave 4×4 Butler Beamforming Matrix for Space Multiplexing

Mohammad Alibakhshikenari (University of Rome Tor Vergata, Italy); Bal Virdee (London Metropolitan University, United Kingdom (Great Britain)); Hassan Zakeri (Amirkabir University of Technology, Iran); Takfarinas Saber (National University of Ireland Galway, Ireland); Ernesto Limiti (University of Rome Tor Vergata, Italy)

[TF3-2] [Invited] 13:40–14:00

Q/V-Band DBF Array Antenna and Direct Digital RF Transceivers for Future LEO Constellation Satellites

Noriharu Suematsu, Tomoyuki Furuichi and Satoshi Tsukamoto (Tohoku University, Japan); Yoshiaki Morino and Akihito Hirai (Mitsubishi Electric Corporation, Japan)

[TF3-3] 14:00–14:20

A Deep Notch Filtering LNA with Compact Layout and 2.3 dB NF for Ka-Band Satellite Communication

Ruiyang Jiang, Haikun Jia, Xiaochuan Duo, Wei Deng and Baoyong Chi (Tsinghua University, China)

[TF3-4] 14:20–14:40

Design and of Deployable Mesh Reflector Antennas for Satellite Applications

Changhyeon Im (Hongik University, Korea (South)); Woung Seo and Seul-Gi Park (Hanwha Systems, Korea (South)); Hosung Choo (Hongik University, Korea (South))

[TF3-5] 14:40–15:00

Design and Integration of a Ka-Band Satellite Receiver in LTCC Technology

Nieves García (University of Cantabria, Spain); Aintzane Lujambio (Alter Technology, Spain); Beatriz Aja and Luisa Fuente (University of Cantabria, Spain)