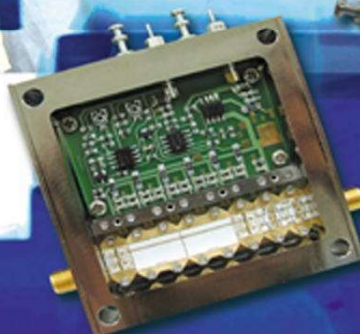
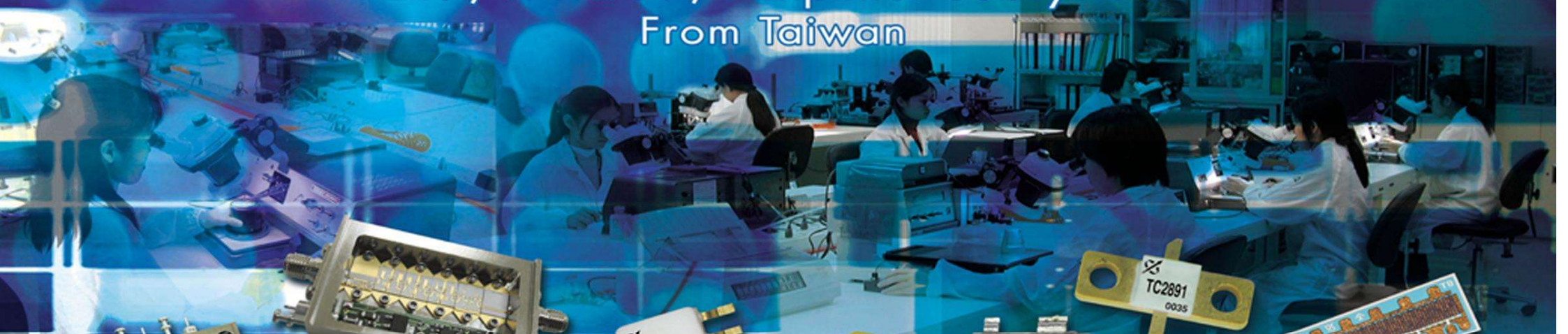




TRANSKOM



FETs / MMICs / Amplifier Subsystems
From Taiwan



Amplifier Subsystems

- 0.8-5.5 GHz
- 1-18 GHz
- S-Band, 8W
- C-Band, 8W
- 6-18 GHz, 1W
- Ku-Band, 2W



MMICs

- DC-20 GHz
- 2.4-2.5 GHz, 1W / 2W
- 3.5 GHz, 1W
- 5.8 GHz, 1W
- Ku-Band, 1W
- Ka-Band, 2W



FETs

- Low Noise
- High Power
- High Linearity
- Extra Low Cost



ISO 9001: 2000



FM 66726

Disclaimer

This presentation and release contain “forward-looking statements” which may include projections of future result of operations, financial condition or business prospects based on our own information and other sources. Transcom undertakes no obligation to update these forward-looking statements for events or circumstances that occur subsequent to such date.

Our actual results of operations, financial condition or business prospects may differ from those expressed or implied in these forward-looking statements for a variety of reasons, including but not limited to market demand, price fluctuations, competition, international economic conditions, supply chain issues, exchange rate fluctuations and other risks and factors beyond our control.

Introduction

- **Established : JUNE 17, 1998.**
- **CEO : CHIAN-SERN CHANG**
EMPLOYEES: 272. Sep., 2023.
- **TRANS-COM**
全 訊
Trans-ceiver Communication
Transmitter-Receiver
Market Focus: Military Microwave Products.
MTTF: > 1M hours.

Technology

- **MMIC Design.**
- **Fab (Processes).**
- **MMIC and Device Products.**
- **Amplifiers.**
- **Transceivers and Subsystems.**

Philosophy

Q: QUALITY

- PERFORMANCE
- RELIABILITY
- SERVICES

P: COMPETITIVE PRICE

D: ON TIME DELIVERY

***** **INTEGRITY** *****

正直 誠信

Facility

- **Factory 1 : 1100 坪**
- **Factory 2 : 1350 坪**
- **Clean Room (Class 100):**
 - * **140 坪**
 - * **GaAs PHEMT**
 - GaN HEMT**
 - * **10,000 wafers / year**

CUSTOMERS

- **Taiwan –**
 - **CSIST**
- **International**
 - *Israel –**
 - **IAI/Elta, Rafael, Elbit**
 - **Elisra, Microkim, IMC.**
 - **Risco, Eyal,etc.**
 - * USA –**
 - **Teledyne Microwave, Teledyne Cougar, CPI**
 - **CTT, Microchip, Mercury, Norden Millimeter**
 - **Keysightetc.**
 - *India - BEL**
 - *Europe –**
 - **Thales(France), API(UK), TMD(UK), Teledyne Defense(UK), Selex(Italy), Indra(Spain), SAAB(SW)**

PRODCUT

- **Semiconductors: PA; LNA**
 - a) **Discrete Devices.**
 - b) **MMICs.**

- **Subsystems:**
 - a) **Amplifiers: up to 10,000 W.**
 - b) **LNAs.**
 - c) **Transmitters.**
 - d) **Receivers.**
 - e) **Transceivers.**
 - f) **Synthesizers.**

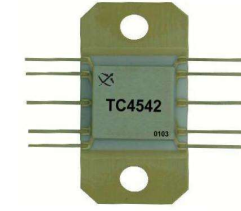
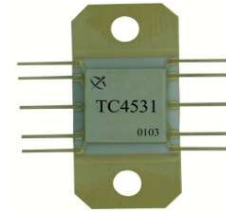
X-band GaN 500W SSPA

- Freq.: 9~10 GHz
(600MHz BW)
- P_{out} (10% duty):
~+57.5 ~ +58.0 dBm
- Pin: +20 dBm
- DC Consumption:
+28V / 33A



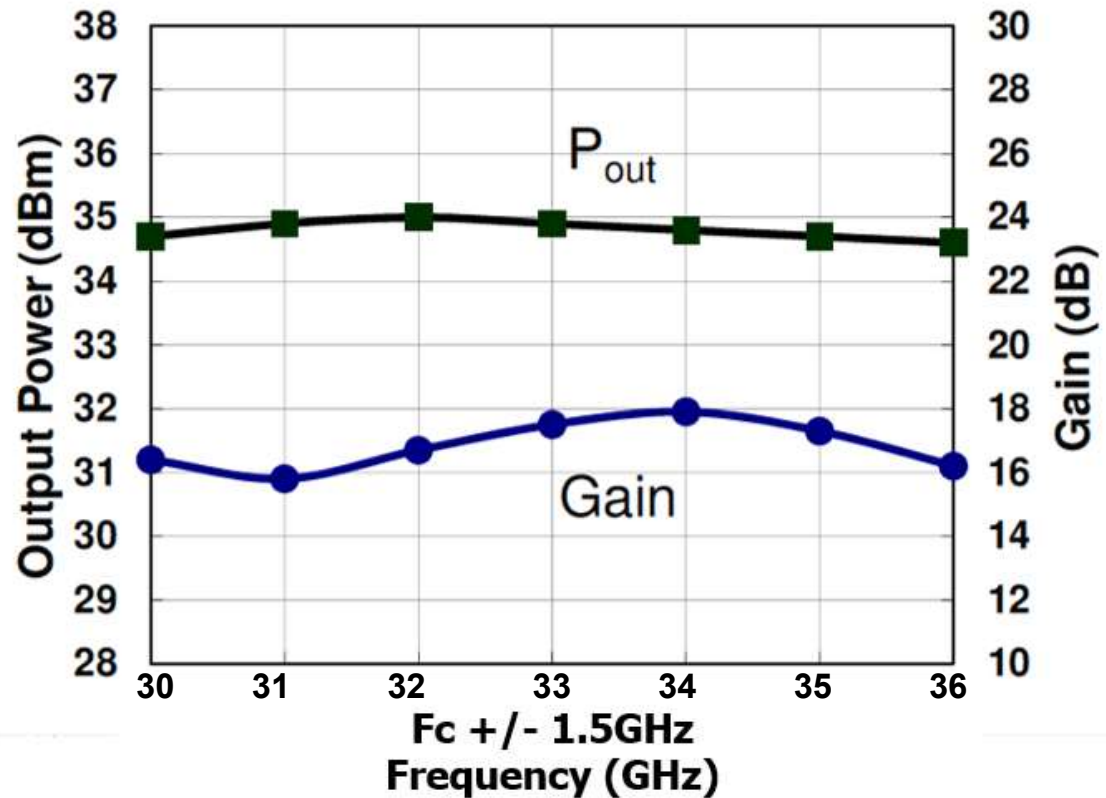
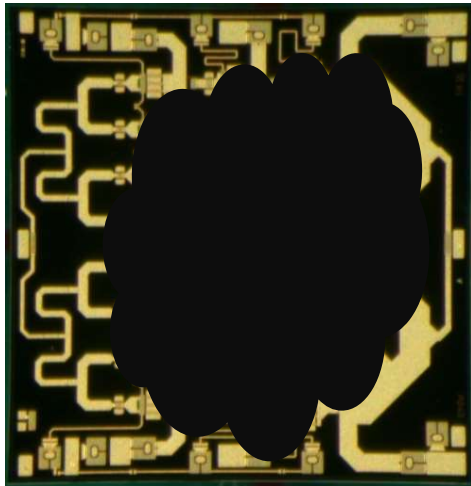
MMICS

| | Frequency Range (GHz) | G ₋₁ (dB) | P ₋₁ (dBm) |
|--------|--------------------------|-------------------------|--------------------------|
| TC3131 | 2.4~ 2.5 | 28 | 30 |
| TC3133 | 2.4~ 2.5 | 24 | 31 |
| TC3139 | 2.3 ~ 2.5 | 26 | 30 |
| TC3141 | 2.4~ 2.5 | 29 | 33 |
| TC3331 | 3.3~ 3.8 | 30 | 30 |
| TC3339 | 2.9 ~ 3.7 | 26 | 30 |
| TC3341 | 3.3 ~ 3.8 | 27 | 32.5 |
| TC3531 | 5.7 ~ 5.9 | 24 | 30 |
| TC3535 | 4.8 ~ 6 | 21 | 29 |
| TC3538 | 5 ~ 6 | 21 | 30 |
| TC3539 | 4.8 ~ 6 | 19 | 29 |
| TC4521 | 13.75 ~14.5 | 26 | 27 |
| TC4531 | 13.75 ~14.5 | 30 | 30.5 |
| TC4542 | 13.75 ~14.5 | 26 | 33 |



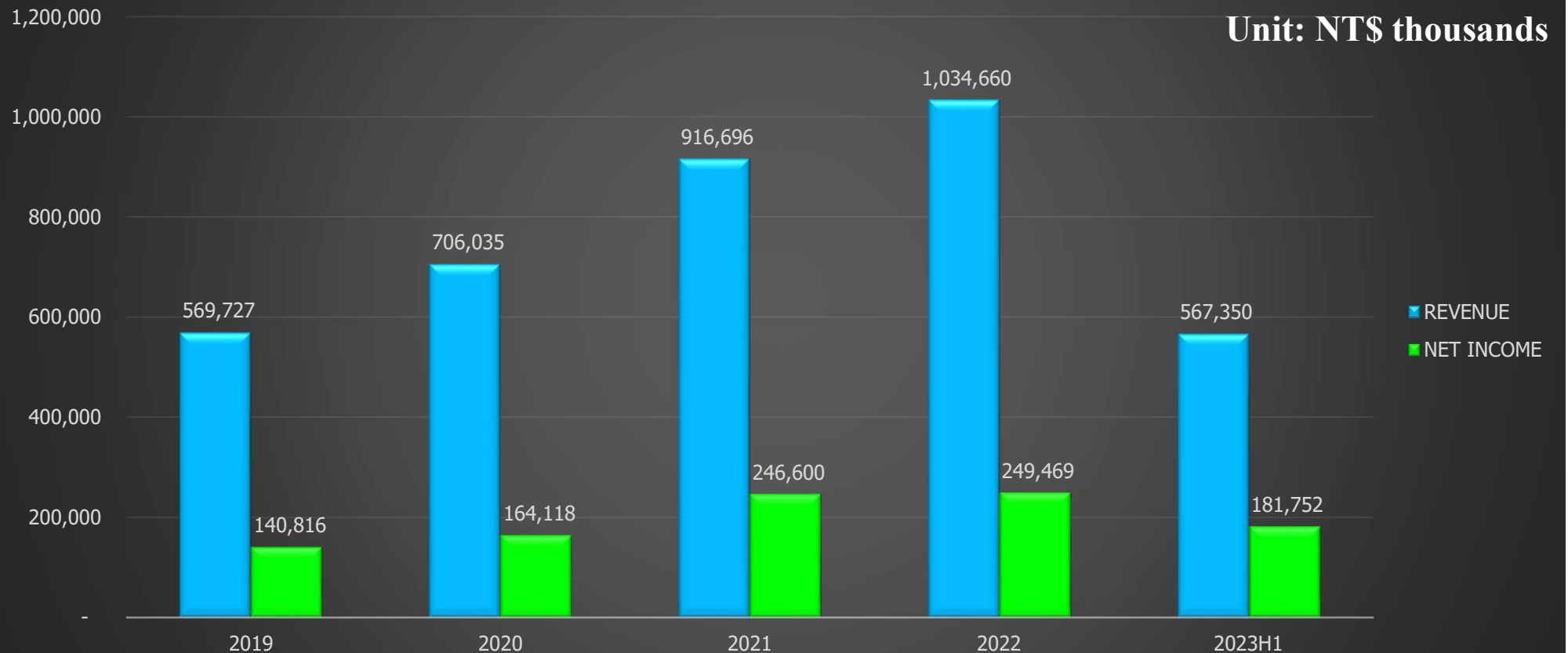
Ka-Band 3W MMIC

- Freq.: 30~36 GHz
- P_{out} (CW): +35 dBm
- Gain: 17 dB
- Bias Condition:
6V / 2.0A ; w/o RF
6V / 3.2A ; w/ RF



FINANCIAL STATUS

LAST 4 YEARS AND 2023H1 FINANCIAL PERFORMANCE



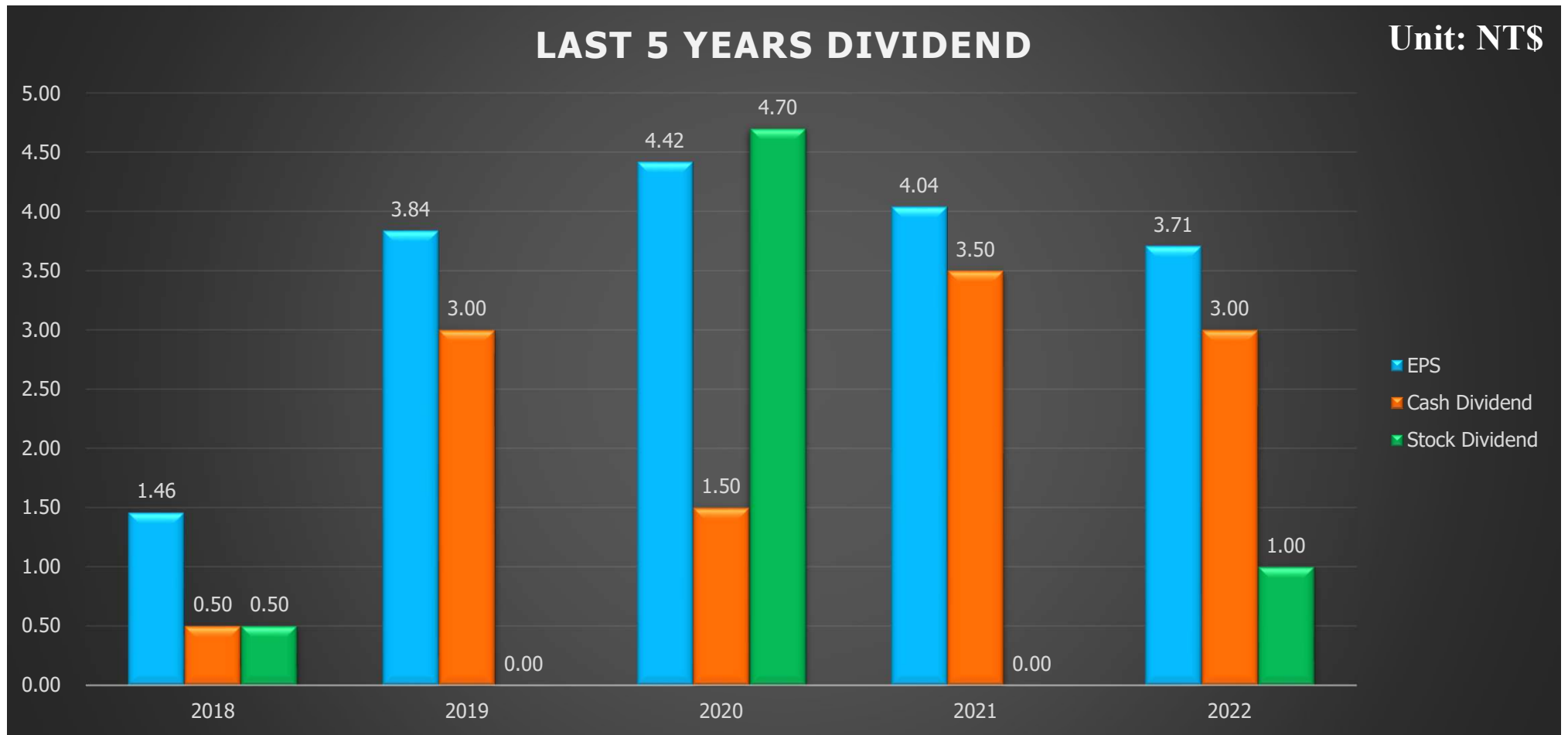
STATUS

- **Revenue: 2022: NT\$ 1.034 B .**
2023: H1: NT\$ 0.567 B.
M7: NT\$ 0.101 B.
Estimate: Growth.

Backlog: NT\$ 1.8 B. (Sep., 2023)

- **FOCUS: DOMESTIC**
 - * **T.G.:** 陸基; 海弓; 強弓
 - * **T.J. :** 陸基; 海劍二; 戰機
 - * **S.F.**
 - * **RADAR.**
 - * **AESA – PHASE ARRAY RADARS.**

DIVIDEND



R&D

A) GaN

- **HIGH POWER PA; To Replace TWT**

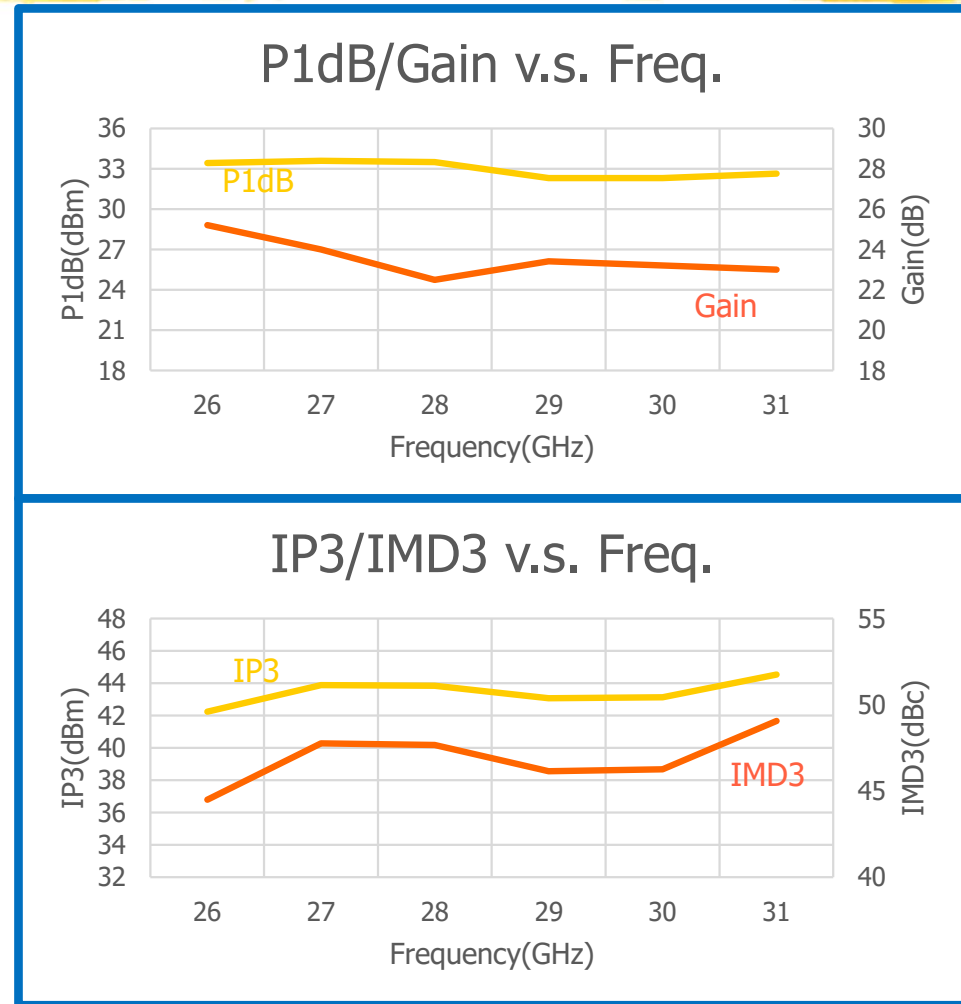
B) 5G

- **3W & 0.5W MMIC PA.**
- **28 GHz ; 39 GHz.**
- **SMALL CELL STATION.**

5G / 28GHz 3W 3-stages PA MMIC

5G_{mmWAVE}

- Freq : 26~30 GHz
- Psat : ~ +35.0 dBm
- P1dB : ~ +34 dBm
- Gain : ~ 23 dB
- IP3 : ~ +43.0 dBm
- IMD3 : (Psc1 = +20 dBm)
46dBc@6V/1400mA(IDQ)
- Size : 3.1 x 3.4 mm



CONCLUSION

- * **MICROWAVE DEVICES, ICs,
AMPLIFIERS, AND TRANSCEIVERS.**
- * **IDM.**
- * **MILITARY.**
- * **R&D: GaN. 5G/mmWave PAs.**