



Linearized Ka/Ku-Band  
**Solid State Power  
Amplifier**  
2 inputs, 2 outputs 2.5W  
**(TXAMP)**

# Linearized Ka/Ku-Band Solid State Power Amplifier 2 inputs, 2 outputs 2.5W (TXAMP)



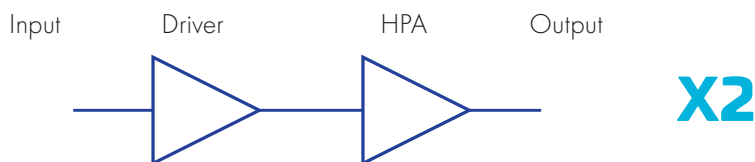
Thales AVS MIS offers a complete line of Ku-band and Ka-band Space qualified SSPA (Solid State Power Amplifier) solutions, leveraging more than 50 years of broad experience in Space Power Amplification.

Thales SSPA 2.5W 2 inputs/outputs product provides superior features including:

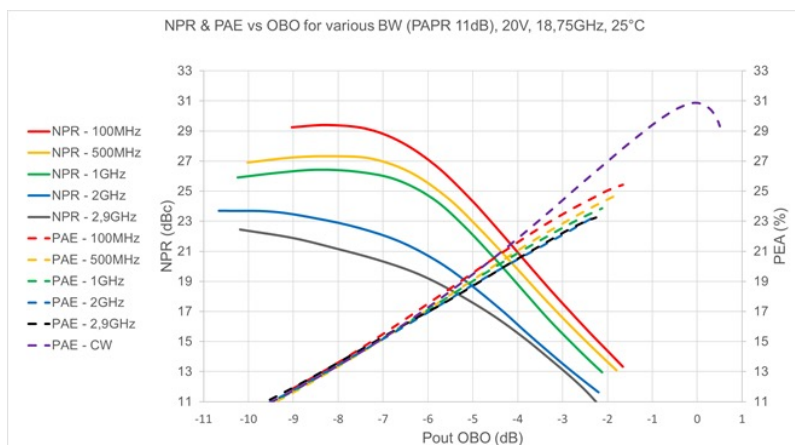
- ◆ Wide band operation in Ka and Ku frequency band
- ◆ High efficiency utilizing GaN technology
- ◆ Linearized performance
- ◆ Conduction cooling
- ◆ TM/TC function included
- ◆ CAN-BUS compatibility

Thales SSPA 2.5W 2 inputs/outputs product is available as standalone RF front end, ideally suited for association with Beam Forming Boards for hybrid Beam Forming Networks.

## Block diagram



## Performances curves



## Key Features:

- ◆ Wave guide output
- ◆ Dual polarization

## Ka-Band

- ◆ Frequency : 17.3 to 21.2GHz
- ◆ Instantaneous bandwidth: 2.9GHz
- ◆ Output power : 2.5W @SAT
- ◆ Power Gain : >40 dB

## Efficiency :

- ◆ >30% @12dB NPR (1W NOP)

## Ku-Band

- ◆ Frequency : 10.7 to 12.7GHz
- ◆ Instantaneous bandwidth: 2GHz
- ◆ Output power : 3W @SAT
- ◆ Power Gain : >40 dB

## Efficiency :

- ◆ >30% @12dB NPR (1.5W NOP)