

Ka Band 5W Solid State Power amplifier

5 watt Ka-Band (29.6 - 30.2 GHz) SSPA was successfully designed, developed and integrated in the ground terminal of GSAT-4 project. The technology has also been transferred to the Industry (ASTRA MW).

Salient Features of SSPA

The MMIC based SSPA at Ka-Band (30 GHz) with 5 Watt of output power is first time developed in SAC, India. It makes use of indigenously developed waveguide based extremely low loss symmetric 3 dB Quadrature coupler to derive the 5 Watt of output power

Major Specifications:

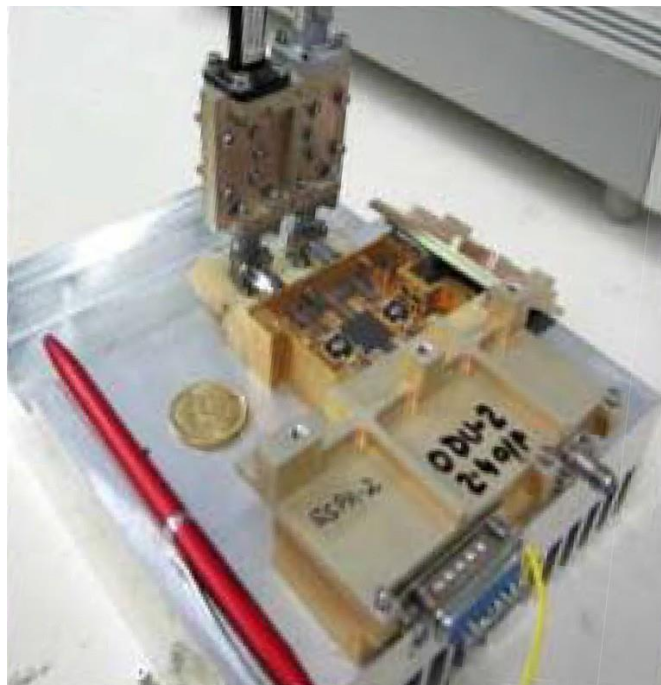
Frequency Range : 29.6 - 30.2 GHz

Output Power : 37 dBm

Small Signal Gain : 40 dB

Gain Flatness: : ± 0.6

Return loss : > 17 dB



Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below: