



Ka BAND 5W SOLID STATE POWER AMPLIFIER (SSPA)

Space Applications Centre (SAC) of Indian Space Research Organisation (ISRO) has developed a 5 Watt Ka-Band (29.6-30.2 GHz) SSPA, and integrated in the ground terminal of ISRO's GSAT-4 project.

Salient Features

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

Major Specifications

- Frequency Range: 9.6-30.2 GHz
- Small Signal Output Power: 37 dBm
- Gain: 40 dB
- Gain Flatness: ± 0.6
- Return Loss: >17dB

Technology Transfer

SAC/ISRO offers to transfer this technology of the **Ka band 5W SSPA** developed by SAC to industries in India with adequate experience and facilities. Enterprises interested in obtaining knowhow may register and submit their proposal to IN-SPACe, Ahmedabad at www.inspace.gov.in

For more details, Contact:

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