

# V Band Low Noise Amplifier

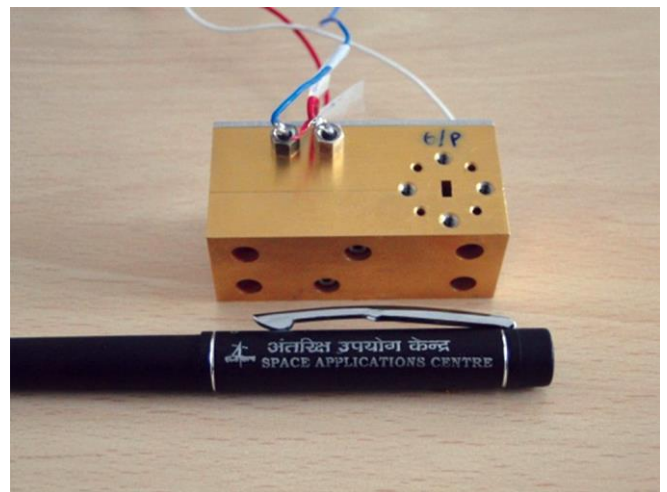
Space Applications Centre of ISRO has developed a low noise amplifier designed at V band. It operates at 50 - 60GHz and gives a gain of 7-10dB. The typical noise figure is less than 5dB. It is also a medium power amplifier with 14 dB output power at 1dB gain compression. The amplifier has waveguide WR-15 interface at the input and output

## Typical Applications

- EW Receivers
- Weather & Military ultra wideband radar applications
- Ultra wideband communication networks

## Salient Features

- Frequency : 50-60GHz
- Noise Figure : 5 dB
- Gain : 8.5dB (Higher Gain option available)
- Output Power at (@P1dB) : 14dBm
- DC power consumption : 80mA , 3V
- Input / Output : Waveguide WR15



Frequency (GHz)	Gain (dB)	noise Figure (dB)	P1dB (dBm)	DC Bias
50-60	8.5dB±1.5dB	5	14	3V,80mA

## 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: