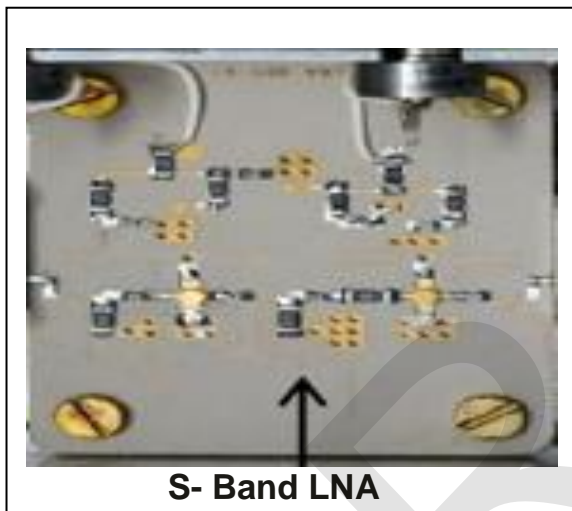


S-BAND LOW NOISE AMPLIFIER

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed a Low Noise Amplifier (LNA) for S-Band applications. LNA is an amplifier with low noise used at the input of RF receiver to provide minimum noise figure to the system which is one of the important parameter in deciding RF receiver sensitivity. It is novel discrete design using transistor as an active device and other passive components.



Salient Features

- ❖ Single polarity positive supply
- ❖ Low current
- ❖ High gain
- ❖ Low noise figure
- ❖ Compact size – 40 x 40 mm²

Major Specifications

Frequency	: 2 - 2.2GHz
Gain	: min 30dB
Noise Figure	: 1dB \pm 0.3dB
Input Return Loss	: better than 8dB
Output Return Loss	: better than 10dB
Supply current	: 17 \pm 2mA
Supply voltage	: 5V

Technology Transfer

URSC-ISRO offers to transfer technology of S-BAND LNA to industries in India with adequate experience and facilities. Industries interested in obtaining know how and further details regarding the S-BAND LNA may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),
Programme Planning and Evaluation Group (PPEG),

📍 U R Rao Satellite Centre (URSC), ISRO, HAL Airport Road,
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🌐 <https://www.ursc.gov.in/industry/index.jsp>

