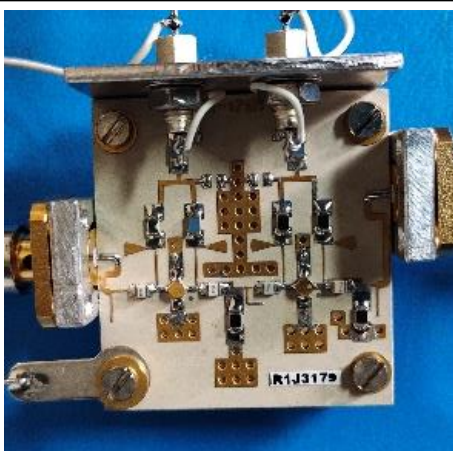


C/X-BAND LOW NOISE AMPLIFIER

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed a Low Noise Amplifier (LNA) for C/X-Band applications. This 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. The LNA at C/X-Band is a discrete design using transistor as an active device and other passive components.



C/X - Band LNA

Salient Features

- ❖ Single polarity positive supply
- ❖ Low current
- ❖ High gain
- ❖ Low noise figure
- ❖ Compact size – 31 x 33 mm²

Major Specifications

SI No	Parameter	Specification
1	Frequency (MHz)	5.8GHz-7.1GHz
2	Gain	Min 24 dB
3	Noise Figure	Max 2.5 dB
4	IRL	Min 5dB *
5	ORL	Min 5dB *
6	Dc supply	+5V,30mA

* For a selective narrow bandwidth of order 50-100MHz, return loss can be obtained better than 10dB

Technology Transfer

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

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