

## Wide Band Feeds

U R Rao Satellite Centre (URSC) of Indian Space Research Organization (ISRO) has designed and developed compact and light weight wide band Feeds for meeting Compact antenna test facility illumination and RF requirements.



### Salient Features

- ✦ Compact.
- ✦ Light Weight.

### Major Specifications

**Major Specifications for Ku-Band Feed, K-Band Feed, Ka-Band Feed**

S.No	PARAMETER	SPECIFICATION
1	Operating frequency	10.5-13.5 GHz, 17.5-20.5 GHz, 26-5-30.5 GHz
2	Polarization	Dual linear (H & V) (Two ports)
3	Amplitude taper	< 0.75 dB ( $\pm 90^\circ$ i.e. sub reflector edges)
4	Phase taper	< 5 deg ( $\pm 90^\circ$ i.e. sub reflector edges)
5	VSWR	1.5 dB or better
6	Gain	Better than 12 dBi
7	Insertion loss	< 0.5 dB
8	Port to port Isolation	Better than 40 dB
9	XPI	Better than 30 dB ( $\pm 90^\circ$ i.e. sub reflector edges)
10	Phase centre variation over the band	< $\pm 10$ mm from center frequency

## Technology Transfer

URSC-ISRO offers to transfer this technology of developed Wide Band Feeds technology by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

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🌐 <https://www.ursc.gov.in/industry/index.jsp>