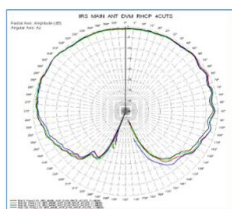


Omni-Directional Antenna

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed an Omni-directional Printed Quadrifilar Helix Antenna operating at S-band providing 0 dBi gain in hemispherical coverage in circular polarization.



Printed Quadrifilar
Helix Antenna



Radiation Patterns

Salient Features

Quadrifilar Helix Antenna consists of radiating filers and feed network printed on the same substrate used to provide high reliability by avoiding many solder joints.

Major Specifications

Frequency Band	2.15 GHz
Bandwidth	15 % max.
Geometry	Printed QFH
0 dBi coverage	$\pm 90^\circ$ for 5 % bandwidth
-4 dBi coverage	$\pm 90^\circ$ for 15 % bandwidth
-10 dBi Coverage	$\pm 110^\circ$
Polarization	RHCP or LHCP
Axial Ratio	6 dB max.
Power Handling	20 W CW
RF interface	SMA
Mass	160 grams
Radome	Teflon

Technology Transfer

URSC-ISRO offers to transfer this technology of Omni-Directional Antenna 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.

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

📍 U R Rao Satellite Centre (URSC), ISRO, HAL Airport Road,
Vimanapura Post, Bangalore – 560 017.

✉ Email-id: tt-icd@ursc.gov.in

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