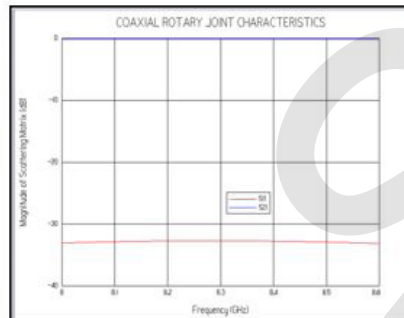


RF Rotary Joint

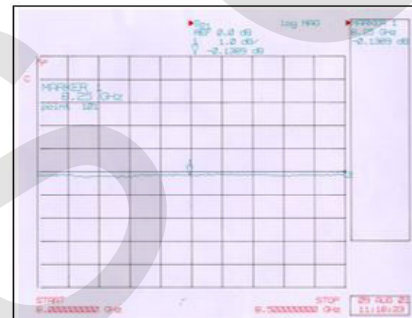
U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed a Low loss RF rotary joint for Dual Gimbal Antenna applications at X-band for data transmission applications. RF Rotary joints provide RF transmission between stator and Rotor part of the mechanical scanning antenna while antenna need movement /rotations.



RF Rotary Joint



Simulated IL and RL of
Rotary Joint



Measured IL response of
Rotary Joint

Salient Features and Major Specifications

- ✦ Non-contact design.
- ✦ Low starting Torque requirements.
- ✦ Long life & Low insertion loss.
- ✦ Good impedance matching.
- ✦ Power handling of 20W.
- ✦ Wide band up to 10% fractional bandwidth.

Technology Transfer

URSC-ISRO offers to transfer this technology of RF Rotary Joint 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.

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