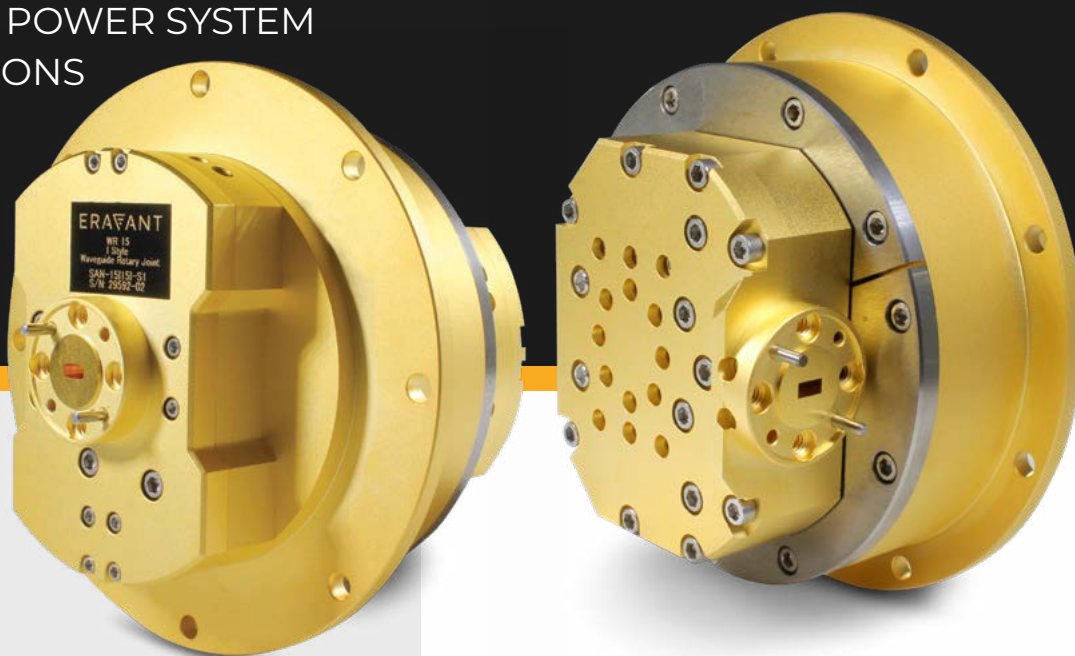


ROTARY JOINTS

FOR HIGH POWER SYSTEM
APPLICATIONS

ERAVANT
FORMERLY SAGE MILLIMETER



Eravant has developed a family of millimeterwave and Sub-THz rotary joints to support high-power system applications in the frequency range of 50 to 170 GHz. The rotary joint family consists of four mechanical configurations, “I”, “U”, “L” and “Reversed L” to provide convenience for system integrations and implementations. The rotary joints offer full waveguide band frequency coverage with low insertion loss and exceptionally high return loss. The robust mechanical designs of these rotary joints guarantee minimum amplitude and phase variation during the rotation. The power handling of the rotary joints is 100 Watts minimum. The rotary joints are ideal candidates for high power radar and communication system applications. They can be used in antenna ranges or special apparatus designed for scientific research and development.

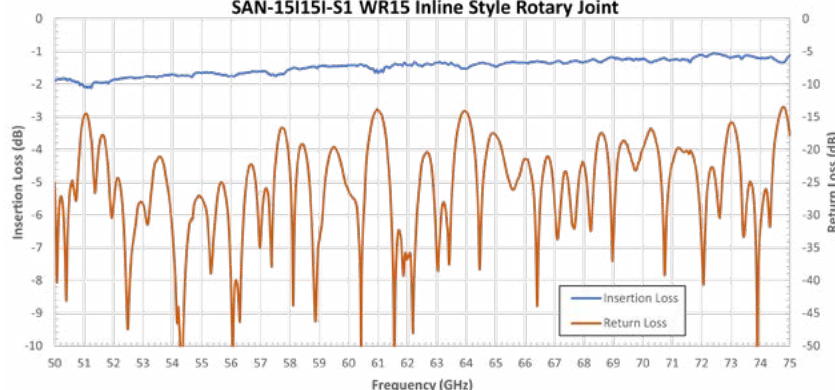
FEATURES

- Frequency Range: 50 to 170 GHz
- Low Insertion Loss
- In-line, Right Angle, and U-Style Port Configurations
- No Contact Mechanism
- High Return Loss
- High Power Handling
- Low Amplitude and Phase Variation During Rotation

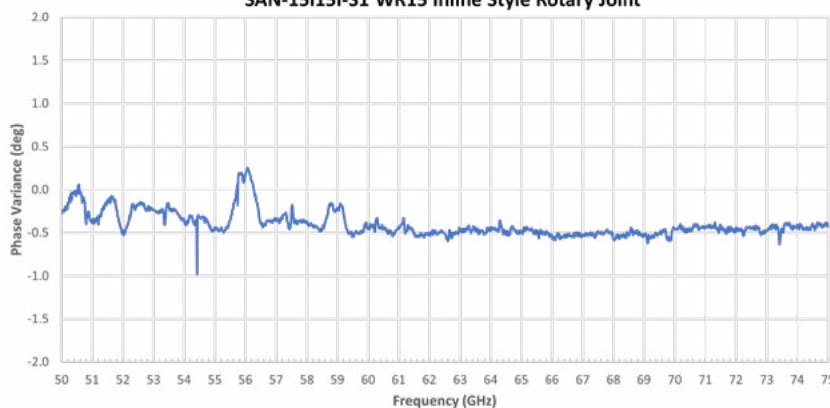
APPLICATIONS

- Radar Systems
- Test Equipment
- Sub-assemblies
- Antenna Ranges
- Communication Systems

Typical Measured Insertion Loss and Return Loss vs. Frequency
SAN-15I15I-S1 WR15 Inline Style Rotary Joint



Typical Measured Phase Variance vs. Frequency
SAN-15I15I-S1 WR15 Inline Style Rotary Joint





SAN-15I15I-SI, I Style Rotary Joint



SAN-15I15R-SI, L Style Rotary Joint



SAN-15R15I-SI, L Style Rotary Joint



SAN-15R15R-SI, U Style Rotary Joint