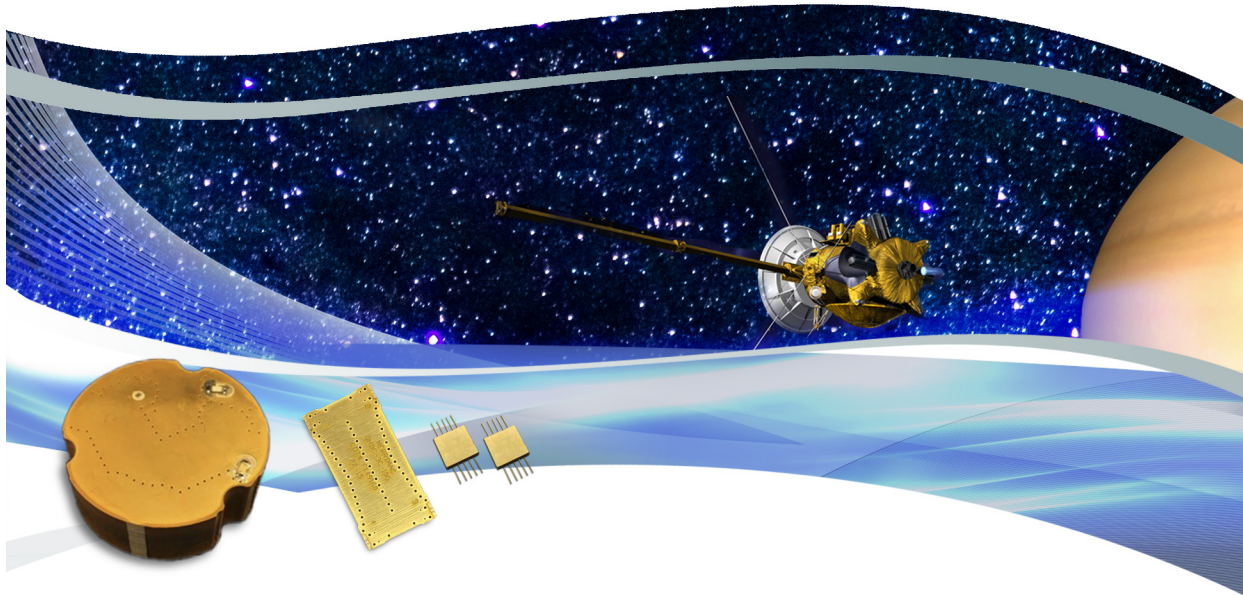


Microwave Space Capabilities



- **Products designed and built for space using space qualified parts, materials and processes, to standard space requirements and screening**

- **Wide range and selection of standard space qualified microwave components**

Crane Aerospace & Electronics designs and manufactures high performance space qualified RF and IF components, active frequency control components and subsystems for space and satellite end use customers. Since 1954, Crane has provided high performance space products that are tested and designed to meet the stringent electrical and environmental specifications required for space applications.

By understanding the needs of performance driven customers, Crane engineers have created a broad selection of standard Microwave Space Qualified Parts (MSQP) in addition to customer specific custom designs. These designs have been used on various space and satellite programs and have gained acceptance across the space industry for their reliability and performance.

Features:

- High reliability
- Previously qualified and reduced risk
- Proven space heritage
- Superior electrical/mechanical performance
- Lighter weight and reduced size
- Lower overall customer cost

Crane Aerospace & Electronics

Crane Aerospace & Electronics delivers innovative systems, components, and services for commercial aircraft, defense platforms, and space systems which have proven reliability in mission-critical environments. Products and services are organized into six integrated solutions: Cabin Systems, Electrical Power Solutions, Fluid Management Solutions, Landing Systems, Microwave Solutions, and Sensing Components & Systems.

For more information, visit www.craneae.com.



Product Lines

Component and Single Function Devices

MSQP Catalog Products

- Large selection of standard catalog parts
 - Power dividers
 - Directional Couplers
 - Hybrid 90°, 180° Couplers
 - Mixers, Modulators, and Demodulators
- Available in different packages (connectorized and non-connectorized).
- Benefits include shorter delivery, standardized documentation, proven design guidelines, reduced customer cost.
- Custom designs also derived from MSQP standards.
- Screened and qualified to CENG-001 (standard requirements for space and screening based on MIL-STD-883 Level S)

Space Qualified Multi-Mix[®] Products

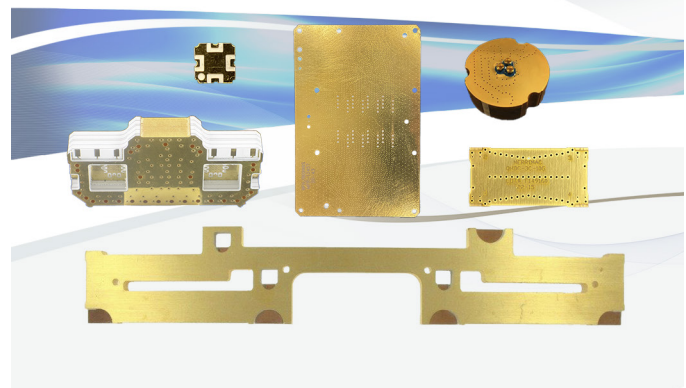
- Individual components and integration of multiple components into a single miniaturized package to save space and cost.
- High performance combination of power dividers/ combiners, delay lines, couplers, hybrids, filters in a multilayer package

Beamformers

- High levels of integration and physical miniaturization.
- Based on Crane's extensive library of passive designs with frequency through Ka band.
- Designed to specific customer requirements.



Multi-Mix Products



Beamformers

