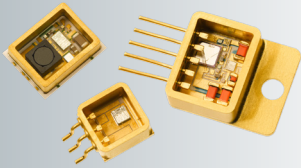


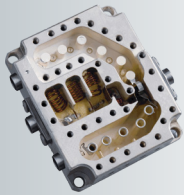
API Technologies designs and manufactures RF, Microwave and hybrid components, microwave semiconductors and microelectronic assemblies for space systems, satellites, launch vehicles, and associated support networks. With a rich space heritage dating back to 1976, API has proven experience participating in numerous past and present space programs, including deep space and scientific missions and several satellite communications projects. Many standard RF components can be qualified to space, meaning customers have access to space-approved standard designs as well as custom, radiation-hardened solutions designed to withstand the most extreme environments.

With five space manufacturing centers of excellence in the US and UK, API offers specialized space and hi-reliability certifications and testing capabilities. These facilities offer a wide range of in-house mechanical and environmental screening and auto-electrical testing for element evaluation as well as completed product qualification. In addition, as a vertically integrated manufacturer, we have in-house machining centers for quick-turn prototyping.



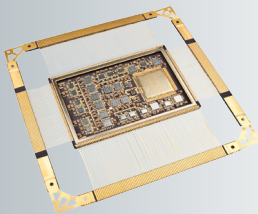
### Rad-Hard Power Conversion & Control

Designed for extreme environmental conditions and radiation exposure, API's complete line of rad-hard power management products include linear voltage regulators with adjustable or fixed output voltages, solid state relays (SPST and SPDT), and highly efficient point-of-load (switching) regulators. With a specialization in reduced size, weight, and power consumption, these products feature radiation hardness assurance up to 300 kRad TID, hermetically sealed packaging, and operation over the full -55° to +125°C temperature range.



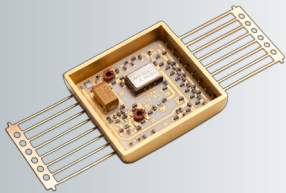
### Space Filters, Diplexers, Multiplexers

API Technologies is a leader in the design and production of customer driven, custom filtering solutions, filter components, and multifunction filter based assemblies for use in defense and commercial satellite payloads. Space flight hardware is designed to meet the harshest of spacecraft launch vehicle profiles and operational spacecraft operating environments. API Technologies' space-product design team engineers solutions for use in space exploration, DOD, commercial, LEO, MEO, GEO, and deep space.



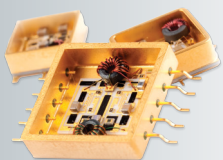
### Microelectronic Hybrids & MCMs

Utilizing multiple technologies like RF, microwave, mmW, mixed signal and power, and optoelectronics, API Technologies develops custom microelectronic solutions, hybrid components, microcircuits, multi-chip modules, and microelectronic assemblies for defense, space systems, satellite and avionics. With an expertise in hybrid engineering and thermal design, API provides high quality, high performance products using state-of-the-art manufacturing processes and testing capabilities.



### SAW Products

Using the latest methods in SAW technology, API Technologies designs and manufactures high performance SAW filters and oscillators for high reliability space applications. API's space-qualified voltage controlled SAW oscillators (VCSSOs) are standard products that can be modified to customer requirements. Produced in a MIL-PRF-38534 Class H and K facility, API's SAW products undergo rigorous electrical testing at pre-seal and post-seal for critical parameters.



### RF, Microwave Components Qualified to Space

API's space-qualified RF & Microwave components are designed and manufactured to withstand harsh environments, offering high performance and reliability in mission-critical applications. Used in many successful space programs, this broad portfolio of high-reliability products includes mixers, waveguide and coaxial limiters, couplers, low phase noise amplifiers, and high linearity amplifiers.

## Program Heritage:

### Deep Space

Galileo  
Cassini  
USERS (2 sats)  
Selene & Okina  
Mars Phoenix  
Lunar Reconnaissance Orbiter  
OCO  
LCROSS  
Mars Science Lab  
ISS Kibo EF

### Scientific Missions

SAOCOM  
Herschel Plank  
AMS-02  
Aquarius (SAC-D)  
Lisa Pathfinder  
Juno  
Grail (2 sats)  
EnMap  
Vegetation  
Cassini  
Meteosat

### Launch & Reentry Vehicles

Taurus  
Minuteman  
H-II

### Communications

GPS-2F  
Prima  
O3B  
Immarsat  
Intelsat  
Sirius Radio  
Direct TV  
Optus 10  
Amazonas 3  
Thor 7  
MUOS  
Military Classified  
Hot Bird  
MARECS  
Olympus  
SkyNet  
Eutelsat  
Koreasat

### Mars Curiosity Rover

Low Noise, High Linearity & High Efficiency Amplifiers  
Mixers  
Frequency Doubler  
VCOs  
Mixed Signal

## Highest Quality Standards

Through our state-of-the-art, MIL-PRF-38534 Class K certified facilities in Marlborough, MA, USA and Great Yarmouth, United Kingdom, API Technologies can satisfy the most stringent quality assurance requirements demanded by the world's tier one space contractors.

Our facilities offer a wide range of in-house mechanical and environmental screening and auto-electrical testing for element evaluation as well as completed product qualification. API has an independently managed, ISO 17025 accredited test facility providing full environmental testing against IECQ, MIL-STD-883 and MIL-STD-202 test methods. These test capabilities are an integral part of our internal process and also available for screening and qualification testing of customer-supplier designs and piece work.

### Testing

- Environmental to IECQ, MIL-STD-883 and MIL-STD-202
- Up-screening of selected passive component and active die lots
- Completed product qualification
- ISO 17025 accredited facility

### Certifications

- MIL-PRF-38534 Class K
- MIL-PRF-38534 Class H
- AS9100
- ISO9001
- IPC-610 Class 3
- J-STD 001
- MIL STD 883
- ESA/SCC 5010- Microwave Diodes QPL



## A Rich Heritage in High-Rel Solutions for Space

### Engineering Expertise with State-of-the Art Manufacturing Facilities

API Technologies has a strong heritage in designing high-reliability RF & Microwave solutions for a variety of deep space, scientific, and commercial programs. Whether your mission requires a single function component or a custom multi-function assembly, API's five space manufacturing facilities offer specialized capabilities and engineering support, offering customers a flexible, responsive approach driven by proven technology and expertise.

Learn more at [micro.apitech.com/space](http://micro.apitech.com/space)