



SUCCESS STORY

Spectrum Control Goes into Deep Space with Orion

Orion will carry astronauts to the Moon and Mars for many decades to come

Spectrum Control has been part of many seminal space journeys into deep space, from the Galileo spacecraft that studied Jupiter and its moons to the Cassini-Huygens' space research mission. Now Spectrum Control will be part of NASA's Orion spacecraft that is being built for a new era of human deep-space exploration.

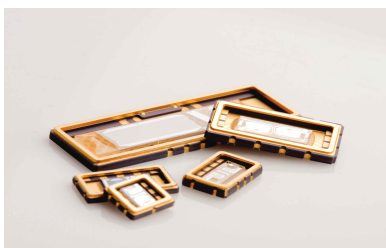
Low Loss Filter, Minimize System Noise

Spectrum Control will be supplying SAW Filters and Low Noise Amplifiers to NASA's Orion Spacecraft, which will carry astronauts to the Moon, as a cornerstone of the Artemis program, and onto Mars for many decades to come. The products will power the system's communications and guidance systems. Spectrum Control's Class H & K manufacturing facilities deliver space screened and qualified solutions designed for the harsh environment in space.

Spectrum Control's filters provide superior group delay performance, which is critical in eliminating linear distortion, a leading cause of interference to digitally modulated signals. Our proprietary design technologies provide superior Group Delay Performance as low as 8 ns.

Spectrum Control's facilities offer a wide range of in-house mechanical, and environmental screening, and auto-electrical testing for complete product qualification.

Better phase noise is a performance requirement often sought in today's most advanced systems. With RF & Microwave amplifiers, Spectrum Control can design customized solutions when more gain, higher power, better linearity are required. The expertise of our engineers and superior technology makes us the leader in low phase noise excellence.



Spectrum Control's SAW technology components



Core Differentiator: Full-Service Production

Design, manufacturing, and qualification that are done at our design facilities are what separates us from our competitors. This full-scale production capability ensures our customers and partners get the highest quality products.

Spectrum Control delivers rugged and reliable amplifiers and RF filters that meet customers' specifications. The breath and design excellence incorporated in our Class K qualified line is unmatched. Spectrum Control has more than 40 years of space program experience that includes deep space, scientific missions, and space communications.

Featured Specs

SAW Filters

- Frequencies from 20 MHz to 2600 MHz
- Loss less than 2 dB
- Fractional bandwidths from 0.04 to 60 percent
- Shape Factors below 1.10:1

Amplifiers

- Low Noise Figure, less than 1 dB
- Low + 5 volt supply
- Modification made to enhance certain mission critical elements
- Unconditionally stable