

# Capabilities Overview

Over the past 25 years, our engineering, design, and manufacturing teams have been driven innovations in aerospace, communications, defense and research technologies. As our capabilities continue to advance, we've moved beyond designing component products alone, to engineering complete assemblies for signal conversion applications. Unlike most providers on the market, all design, engineering and manufacturing work is completed under one roof. Here's how.



## DESIGN

### DESIGNING THE WAY FORWARD

Our in-house design team offers decades of combined experience in RF and microwave systems design. We follow state-of-the-art design techniques and processes, and have developed some of the most innovative signal sources in the industry. What's more, our design engineers are just a phone call away. We work with you as a partner. When we configure a product to meet your specifications, we may identify a new avenue to the solution, and consult with you to ensure your project is a success.

### DESIGN BENEFITS

- + Collaborative partnership
- + Customization based on your requirements
- + Decades of experience in RF and microwave systems design
- + Broad industry expertise
- + Relentless customer service



## ENGINEERING

### ENGINEERING THE IMPOSSIBLE

Our process-driven engineering methodology is scalable to manage anything from simple configurations to the most complex custom solutions. Combine this rigorous approach with advanced tools and genuine ingenuity, and you've got a team that is poised to solve your next "impossible" challenge. From frequency synthesizers and oscillators, to amplifiers and block up-converters, our engineering innovations are setting a new standard for the industry.

### TECHNICAL ENGINEERING TEAMS

Decades of experience across a variety of skillsets.



Electrical



Mechanical



Manufacturing



Testing



Firmware & Software



## MANUFACTURING

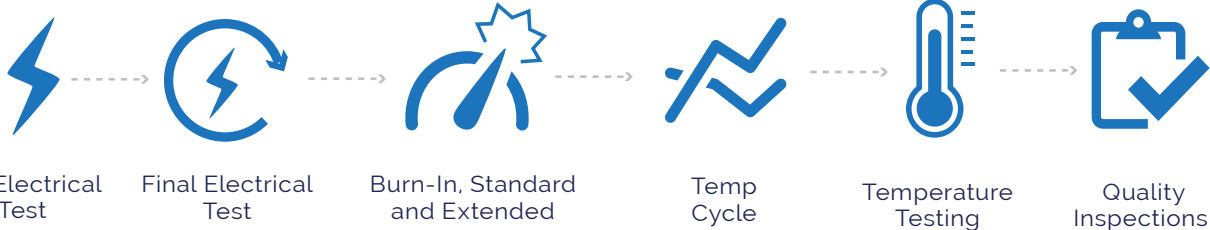
BUILDING A LEGACY OF EXCELLENCE

Our manufacturing facility is ISO 9001:2008 certified, IPC certified, and staffed by experienced professionals. In the past 10 years, we've shipped more than 500,000 assemblies. Our production capacity can reach as high as 25,000 products per month, offering timely delivery to clients that require large high-volume orders. With our extensive in-house testing capabilities, including advanced electronic stress screening, we're able to ensure all final products are made to spec and built to perform.

This matters more now than ever. With low-cost, low-quality components pouring in from overseas, clients trust EM Research to build frequency generation and signal conversion solutions that offer higher performance, higher quality and lasting reliability.

### STANDARD OPERATIONS

100% In-House Production



## PUT US TO THE TEST

Contact EM Research today to put us to work designing and configuring a solution to meet your specific project needs. Call 775.345.2411 or visit [www.emresearch.com](http://www.emresearch.com).

### ABOUT EM RESEARCH

EM Research designs and manufactures configurable frequency generation and signal conversion solutions for communications, SatCom, aerospace, military and commercial wireless applications. Our technology is integral to complex systems that keep our nation safe, advance scientific research and enhance global communication. With decades of engineering expertise across a broad range of frequency bands, along with an ISO-certified manufacturing facility and relentless customer service, EM Research provides full spectrum innovation that drives clients' mission success.



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