

Supercomponents

A Complete Miniaturized Subsystem Consisting of Quality Microwave Components Density Packaged into One Enclosure

- ▶ High Performance
- ▶ Customer Designed
- ▶ Miniature Compact Package
- ▶ Enhanced Electrical Performance

GENERAL INFORMATION

Supercomponents represent an answer to the ever-present challenge of integrating high microwave performance into small packages. As a recognized leader in the development and manufacture of supercomponents, Elisra has leveraged its knowledge-base of diverse technologies and microwave components into providing the best possible subassemblies on the market today.

Supercomponents: Fully Integrated Multi-Function Assemblies

These miniaturized subsystems consist of numerous microwave components which are assembled into a small package. The package includes such diverse components as amplifiers, switches, oscillators, filters and MMIC devices.

Every component is carefully designed and adapted to meet full performance custom-specifications, while taking into account the particularly compact supercomponent enclosure requirements.

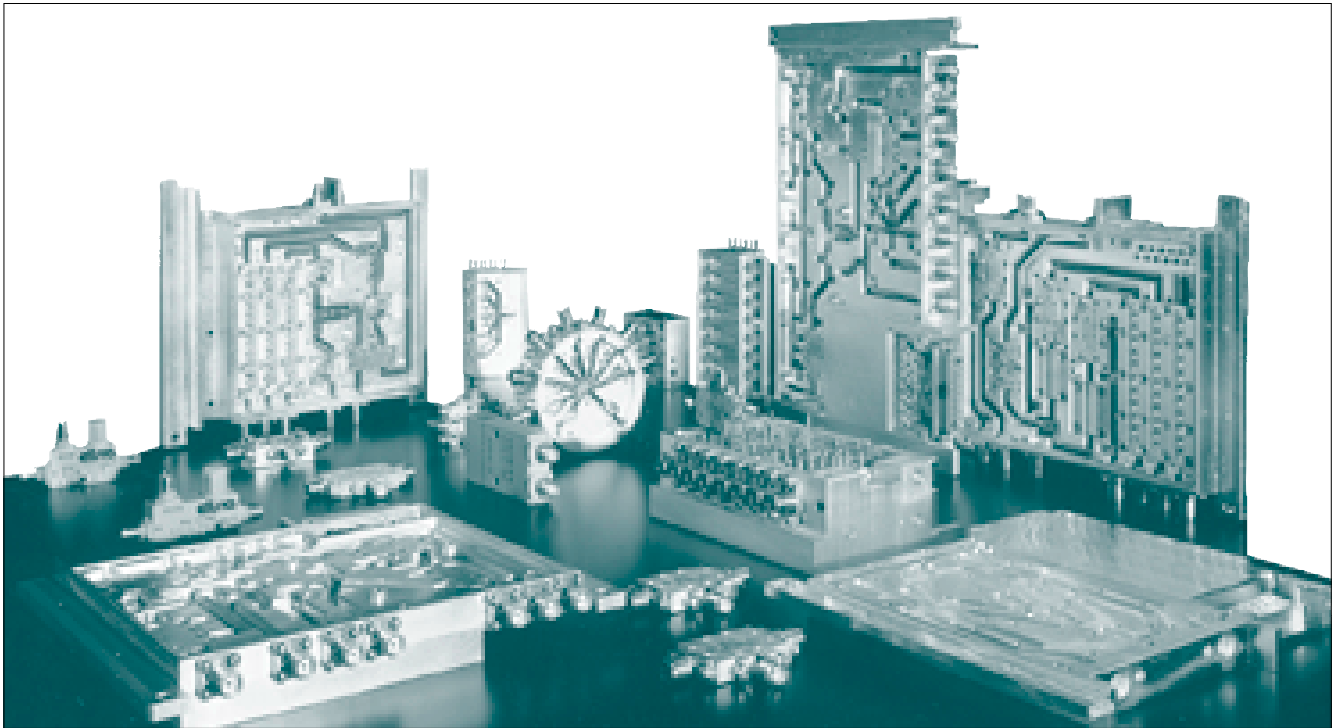


Why Supercomponents?

When operating within complex EW, ELINT/COMINT, radar or communication systems, performance versus size/weight constraints are almost always an issue. Supercomponents provide an excellent, cost-effective solution to these challenges – especially when larger quantities are involved.

Since compact integration eliminates many connector interfaces, overall electrical performance is often enhanced. Our supercomponents frequency demonstrate improved VSWR and enhanced gain and phase characteristics.

These integrated subassemblies perform diverse functions for military and commercial applications all “in-a-box”, simplifying the traditional process of dealing with a varies mix of components, interfaces and vendors.



Why Elisra and Supercomponents?

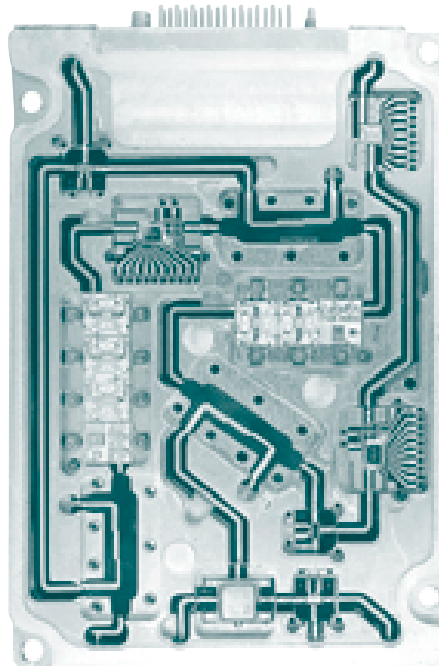
The development and manufacture of supercomponents are a natural extension of our qualified technology and have positioned us as dominant players in the industry. More than 30 years of design and manufacturing experience have given us the opportunity to produce high quality, high performance components and sub-assemblies for a variety of applications.

Leading-edge MMIC components are integrated in our MIC supercomponents to achieve optimal performance at optimal prices.

- ▶ **MMIC Low Noise, Gain or Power Stages**
- ▶ **MMIC Amplifiers**
- ▶ **MMIC Switches**
- ▶ **MMIC Attenuators (DCA's)**
- ▶ **MMIC Mixers**
- ▶ **MMIC Broadband Phase-Shifters**
- ▶ **MMIC Regulator and Driver Circuitry**
- ▶ **Voltage Controlled Attenuators**

Elisra Supercomponents can Make the Difference in Your Systems

Our proven track record in this field is based on a complete infrastructure which supports in-house research, engineering, quality control and after-sales maintenance.



In the following pages you will find a broad range of examples of our Microwave Multi-Function Assemblies 0.5 - 18GHz.

Our qualified staff of experienced sales and design engineers are available to assist you in specifying the supercomponents needed to meet your special requirements.