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**Diode-Based Control Components**

Detectors, limiters, switches and phase shifters  
 Low and wide dynamic range amplifiers; millimeterwave subsystems



**RF & Microwave Thin Film Amplifiers**

Open carrier modules, high intercept, monopulse tracking, receive multicouplers;  
 Subsystems / Front ends



**Low & High Power Thin & Thick Film Passive Devices & Cable Assemblies**

**Smart Load®** power sensing terminations, **Thermopad®** temperature variable attenuators from DC to 36 GHz; broadband equalizers from 2 to 18 GHz, ultra-high power small package diamond terminations and resistors from DC to 18 GHz. Resistors, attenuators, terminations (BeO, AL-N, lead-free, remote coaxial) **Hybrix®** couplers and hybrids from DC to over 4 GHz **RF Coaxial cable assemblies to 50 GHz** (flex, semi-rigid, and low-loss) Military, space, and commercial applications. *Custom engineering solutions*



**High-Power RF & Microwave Transistors**

Pulsed and CW up to 1500 W per device



**High-Frequency Multi-Function Assemblies**

Custom microwave power amplifier & related subassemblies  
 Thin Film products and solutions (custom design, metalized panels, fine geometries);  
*Class S, K certified*



**Coaxial Passive RF and Microwave Attenuation & Switching Products**

Attenuators (fixed, programmable, rotary, custom assemblies)  
 Terminations (.5W to 1500W)  
 Switches (SP2T to SP32T, matrix); Power dividers (2-way to 64-way, high isolation)  
 Custom Integrated Assemblies; Test Systems



**RF & Microwave Filters for Military, Wireless, & Commercial Markets**

Cavity, Discrete, Waveguide, Tunable, Ceramic, Tubular, Wireless Products  
 Switched Filter Banks, Filter-based Integrated Microwave Assemblies



RF & Microwave Diodes: Schottky, PIN, Step Recovery, Varactor, and sampling phase detectors; Small signal bipolar transistors, MIS Caps

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**Passive Components for Wireless Infrastructure**

Passive components (splitters, couplers, Bias Tees, DC Blocks) for Military and wireless infrastructure and DAS (Distributed Antenna Systems)



**YIG-Based Components**

Oscillators, filters and synthesizers from 2-40 GHz



**Logarithmic Amplifiers and Ultra-Low Phase Noise Oscillators**

Logarithmic Amplifiers, Digital Phase Detectors, Discriminators, Source-based RF systems & sub-systems, Ultra Low Phase Noise Crystal Oscillators, Phase Locked Dielectric Resonator Oscillators



**• SRI Connector Gage**

High-Precision RF & Microwave connectors and adapters to 85 GHz (Coax, Rack & Panel, Fiber Optic)

*Custom engineering solutions*

**• SRI Hermetics**

Custom hermetic connectors - D Type (Sub, Micro, Nano)

Custom weldable hermetic packaging solutions (Al, Ti, AlSi, Steel, custom alloys)



**Active Devices for RF through Millimeter Wave and Fiber Optic**

GaN, GaAs, High voltage pHEMT, HBT, MESFET, HFET, VPIN, LDMOS Wireless Products (LNA's, power amplifier modules, switches, mixers)

**SAW and BAW Devices**

Filters, delay lines, resonators, oscillators for military, wireless network, and cellphone markets.

**Foundry services available**



**Ferrite Components – Isolators/Circulators**

Ferrite based components from 400 MHz to 40 GHz; SMT, Waveguide, MICPuck™.

Input power levels from <10mW to 1 KW Peak

Low Insertion Loss, Low Passive Intermodulation

Commercial and military designs



**Low-Noise Timing Modules & Low-Noise Oscillators**

Jitter attenuators, frequency translators, clock generators, synchronous Ethernet, SD & HD video timing, Stratum 3

**Precision Crystal Oscillators**

XO, XTAL, OCXO, TCXO, VCXO, Hi-REL/COTS