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**High-Performance Control Components and Amplifiers to 40GHz**

Amplifiers – Broadband, Octave, and Low-Noise

PIN Switches, Limiters, and Switched-Bit Phase Shifters



**High-Power RF & Microwave Transistors - Pulsed and CW**

GaN – CW and pulsed transistors to 1000 Watts

Bipolar – Pulsed transistors to 1500 Watts

LDMOS – Pulsed transistors to 1000 Watts



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

Attenuators (Fixed, Programmable, Rotary, Custom Assemblies)

Terminations (.5W to 1500W)

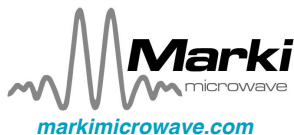
Switches (SP2T to SP32T, Matrix); Power Dividers (2-way to 64-way, High Isolation)

Custom Integrated Assemblies; Test Systems



**XO, OCXO, TCXO, VCXO, Crystal Filters, Crystals**

Ultra-Low Phase Noise, Low-G Sensitivity, High Stability (Stratum 3)



**Broadband RF/Microwave Components**

Active Components (Double/Triple Balanced Mixers, Multipliers, Amplifiers)

Passive Components (Baluns, Bias Tees, Couplers, Filters, Power Dividers)

Custom Designed GaAs MMICs (Mixers, Amplifiers, and Modulators)



**RF & Microwave Diodes and Transistors**

Schottky, PIN, Step Recovery, Varactor, and Sampling

Phase detectors; Small Signal Bipolar Transistors, MIS Caps



**YIG-Based Components**

Oscillators, Filters and Synthesizers from 2 to 50 GHz



Special Hermetics Products  
shp-seals.com

**High-Reliability Hermetic Products and Services**

Feedthrus/Feedthru Capacitors, Headers, Connectors

Custom Hermetic Housings

(continued on reverse)

(continued from reverse)



### RF Power Amplifiers from DC to 6 GHz

Modules, benchtop, rack-mount configurations supporting Electronic Warfare, Communications, Radar, Test & Measurement

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## smiths interconnect

bringing technology to life

<http://smithsinterconnect.com>



### Low & High Power Thin & Thick Film Passive Devices

**Thermopad**® Temperature Variable Attenuators from DC to 36 GHz

**Smart Load**® Power Sensing Terminations

Resistors, Attenuators, Terminations (BeO, AL-N, Diamond, RoHS, Remote Coaxial)



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### Coaxial Cable Assemblies to 50 GHz (Flex, Semi-rigid, and Low-loss)

Military, space, and commercial applications. *Custom engineering solutions*



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

Cavity, Discrete, Waveguide, Tunable, Ceramic, Tubular, Wireless Products

Switched Filter Banks, Filter-based Integrated Microwave Assemblies



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### TRAK Microwave Ltd Ferrite Isolators, Circulators, Transitions and Terminations

from 300 MHz to 52 GHz for established reliability and COTS applications including commercial space, medical and industrial markets. Custom products.



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### Superior Performing Electrical Connectors for the Most Demanding Applications

Premium Interconnect solutions for electrical and electronic applications requiring optimized quality, performance, and reliability. Hypertac Connectors utilize the original high performance hyperboloid contact technology; ideal for harsh environments and safety-critical applications.



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### High Density Interconnects with Spring Probe Technology.

Comprehensive offering of spring probe-based solutions including: contacts, connectors, interposers, semiconductor test sockets, and ATE interfaces. Proven off-the-shelf and custom products deliver the best solution for the customer's specific application.

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### Military and Space Components Systems and Subsystems

**Frequency Source Products** - Oscillators, Exciters, Synthesizers, Integrated Microwave Assemblies (IMA)



[trak.com](http://trak.com)

**SMT, Coaxial, Waveguide Ferrite Products** - Circulators, Isolators, Switches, Iso-adapters, Filters, Combiners, Diplexers, Terminations, Couplers and Custom Products

**Time and Frequency Systems** for Satellite Communications