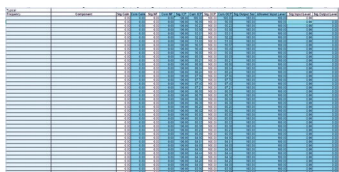




Sovereign RF Systems, LLC (SRFS) is your Greater Philadelphia, PA resource for consulting services and product design of reduced C-SWAP RF/MW and mixed-signal components, modules and subsystems from DC-40GHz.



SRFS Capabilities:

Requirements flow down critical for successful, reduced C-SWAP systems

Using an Excel-based Cascade Analysis spreadsheet SRFS can organize your RF chain from antenna to ADC and DAC to antenna for optimal performance.

Simulation and modeling key to producing successful first run designs

All the key elements for your RF design are simulated and optimized by SRFS within Keysight Genesys utilizing tools such as Synthesis, Momentum and Modelithics Complete Library. To reduce cost and increase yield SRFS runs a Yield Analysis as part of its concept to production systematic design process.

Accurate and controlled design documentation minimizes production issues

Using Cadence OrCAD PCB Editor SRFS documents schematics, BOMs and layouts for your designs. Part numbers are assigned, a folder structure is built around this part number and maintained as part of our documentation control process. Whether you are purchasing an SRFS product or using documentation we provide for your production via contract you can be assured that it is complete and accurate.

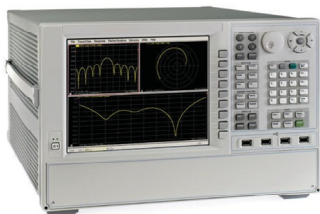
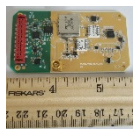
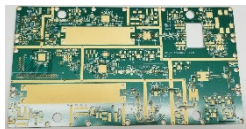
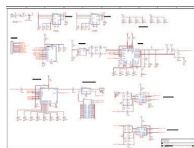
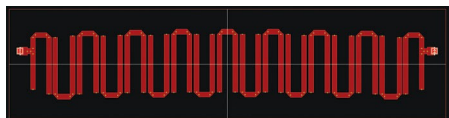
A network of resources provides timely services that supplements SRFS offerings

Mechanical, software/firmware, digital design, assembly and rework are all areas that SRFS subcontracts using a vast, agile network of resources.

Testing – Flexibility in testing options

SRFS provides flexibility in its testing options:

- SRFS rents the necessary equipment
- SRFS subcontracts to a third party
- Customer provides the necessary equipment on-site (benefit of reduced contract cost)



Past consulting projects/custom products:

Phase Locked Oscillator 840MHz
Weighted beamformer Ku Band
Failure Analysis 2-18GHz SWAFB
Negative Impedance Circuit theory to production
30-6000MHz RF Front End for SDR

L Band BIT Synthesizer
Low Phase Noise medium power amp sub 2GHz
Ku Band Up/Downconverter
Repair wireless Ku Band Upconverter/HPA