

S-PARAMETER MEASUREMENT



- ▶ **mm-Wave S-Parameters**
- ▶ **Environmentally Controlled Testing**
- ▶ **Customized Test Plan**

Eravant provides comprehensive S-Parameter testing services for both coaxial and waveguide systems. For coaxial systems, we offer testing from **0.01 to 110 GHz** in a single sweep, and for waveguide systems, we cover **18 to 325 GHz**, offering **full-band single-sweep testing** across various frequency ranges. We supply industry-standard .s2p files for two-port active and passive components, ensuring seamless integration into your system design and analysis tools.

In addition to common two-port components, we also handle three-port and more complex passive components such as directional couplers and multiple-port switches. Furthermore, Eravant is actively developing capabilities for custom complex system testing including assembly services and testing for active three-port components such as mixers.

Eravant also utilizes cutting-edge environmental control systems that allow for **S-Parameter testing under aerospace temperature standards (-55 to +125 C)**. For more extreme conditions, we provide testing services in **-200 C space environments and vacuum conditions**, simulating the operational challenges of space technology.

Eravant specializes in high-volume S-parameter testing of waveguide components, providing a range of component

validation and sorting services at low cost. Our Proxi-Flange and Wave-Glide products were developed specifically to accelerate our testing through-put while maintaining the highest possible measurement accuracy. Our advanced test systems greatly reduce fatigue on our test technicians and minimize the potential for component damage during handling. Our customized test setups, advanced data-collections systems, and highly trained personnel provide the fastest and most reliable high-volume component testing services available in the industry.

Service Numbers	Test Type	Frequency Range
FTB-0250-T1	Temperature Compliance	0 to 500 GHz
FTSP-ACTV-S1	Active Components	0 to 110GHz (Coax) 50 to 325GHz (WG)
FTSP-PSSV-S1	Passive Components	0 to 110GHz (Coax) 50 to 325GHz (WG)



Test services offered by Eravant require close coordination and interaction between customers and our technical staff. Both on-site and remote testing options are offered. Eravant is located in Torrance CA, a short drive from Los Angeles International Airport (LAX).