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Elve Achieves TRL-8 Space Qualification for 100 W Space TWTA Platform

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[Elve](#) announced that its 100 W mmWave Space TWTA platform has achieved Technology Readiness Level 8 (TRL-8) space qualification under a U.S. Space Force SBIR Phase II contract. This development qualifies the TWTA -platform to NASA and U.S. Space Force standards demonstrating reliable performance under flight-like environmental conditions.

“Reaching this operational benchmark represents a pivotal moment for Elve and our stakeholders,” noted Jennifer Salmon, a seasoned systems expert and Chief Product Officer at Elve. “The qualification has validated our hardware for the harshest environments, making mmWave power accessible at scale for modern space architectures. Moving to the final orbital demonstration is a step we are eager to take.”

“This space qualification readiness milestone positions Elve’s products for missions critical to the rapid, proliferated deployments required in space,” said Abi Sivananthan, a VP of Technology at In-Q-Tel (IQT). An Elve investor, IQT is the not-for-profit strategic investor for the U.S. national security community and America’s allies.

[Elve offers a family of 100 W mmWave TWTA platforms](#), including space-qualified, military-qualified, and ground-based variants, designed to meet distinct mission and environmental requirements.

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Aerospace & Defense, Microwave, mmWave, Power Electronics, RF, Satellite, Space, Telecom

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About Us:

Heading : About Elve

Elve is a Davis, California-based deep tech innovator manufacturing high-power millimeter wave (mmWave) amplifiers. Founded in 2020, our team of over 50 engineers, scientists, and operators is dedicated to unlocking mmWave power for applications critical to humanity, from high data rate communications and sensing to the energy and bio-medical segments. We are proud to empower the systems that connect, energize, inform, and protect people.