# RUGGED & DEFENSE WHERE RUGGED MEETS THERMAL



#### Applications

Embedded Computing | Radar & Satellite Electronic Warfare | Avionics & Guidance Systems Electronic Jamming Equipment | Communications Electronic Rugged Enclosures | Mission Processing Command and Control | Video and Image Processing

#### WAKEFIELDTHERMAL



Thermal control, technical standards and precise machining requirements are well practiced routines for our technical team. Our top engineers have decades of experience solving the industry's specific challenges. The Thermal Solutions Segment (TSS) will provide your rugged and defense solutions with confidence, and within your mission critical timelines.











inimmine.



### The Road to Success

From CFDs to cold plates, CAD assemblies to brazed chassis, and from initial concept to production, we will provide support along the way. Reach out to our team of engineers at any point in your design cycle for high level collaboration and solutions. TSS is excited to turn your challenge into innovative components.

## **Dedicated Manufacturing Locations**

Rugged and defense solutions demand the leading edge in manufacturing. Vacuum and dip brazing, stir welding and 5-axis CNC capabilities are our edge in your fight. Complex, simple, large, or small, TSS is ready to deploy your solution within its 400,000 sq. ft. of manufacturing space worldwide.

Liquid Flow By

Air Flow Through

Air Flow By

Conduction Cooled Heat Frame with Integrated Heat Pipe Technology



COOLVATION Innovative Thermal Solutions

# **5 STEP** THERMAL ENGINEERING GUIDE From Concept To Cooling

COOLVATION provides thermal management engineering services to improve products' thermal performance while applying cost effective solutions to eliminate unnecessary manufacturing costs. COOLVATION is a seamless resource extension for our customers' thermal & mechanical engineering teams from ideation to lab testing.



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