

# High Thermal Sawtooth Card-Lok

CONNECT AND PROTECT

## High Performance Card-Loks to Meet Swap-C Requirements

nVent SCHROFF's NEW High Thermal Sawtooth Card-Lok (HTS) is evolving the traditional Card-Lok to better satisfy industry requirements in aerospace and defense for conduction cooled systems. The HTS series Card-Lok carries advanced thermal and clamping performance compared to similarly sized Card-Loks and comes in 3 profiles (260HTS, 265HTS, and 280HTS). With a cost efficient design, the HTS series meets advanced performance demands for Size, Weight and Power (SWaP) while reducing your total cost of ownership.



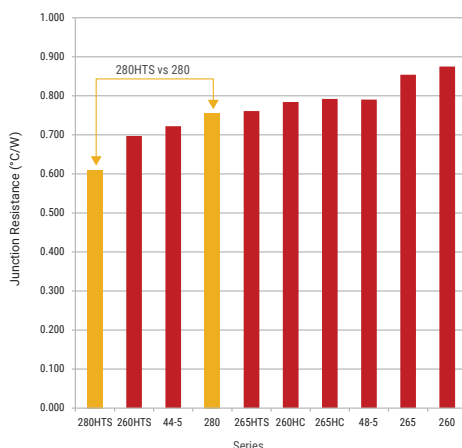
### FEATURES AND BENEFITS

Reliably secure and cool mission critical electronics in military and defense as well as commercial aerospace applications

- Optimized to meet advanced requirements for Size, Weight and Power at a low cost
- Meets advanced requirements for heat dissipation and shock and vibration resistance
- Allows for up to 15% increased thermal performance over similarly sized card-locks
  - The HTS series minimizes thermal resistance and allows for heat to flow almost directly from the board to the cold wall
  - Features sawtooth profiles providing a continuous and uniform surface along the PCB/heat frame and along the cold wall
- Allows for up to 91% higher clamping force over similarly sized Card-Loks (280HTS)
- Drop-in replacement for series 260, 265, and 280 nVent SCHROFF Card-Loks

### BEST IN CLASS THERMAL PERFORMANCE

- Exterior solid bracket design maximizes surface area for heat transfer
- The lower the junction resistance the better the thermal performance

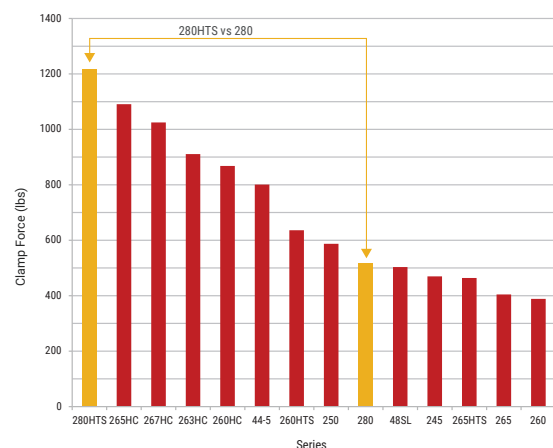


\*Thermal performance is based on application and environment factors

\*Performance also depends on finish, Electroless Nickel performs the best

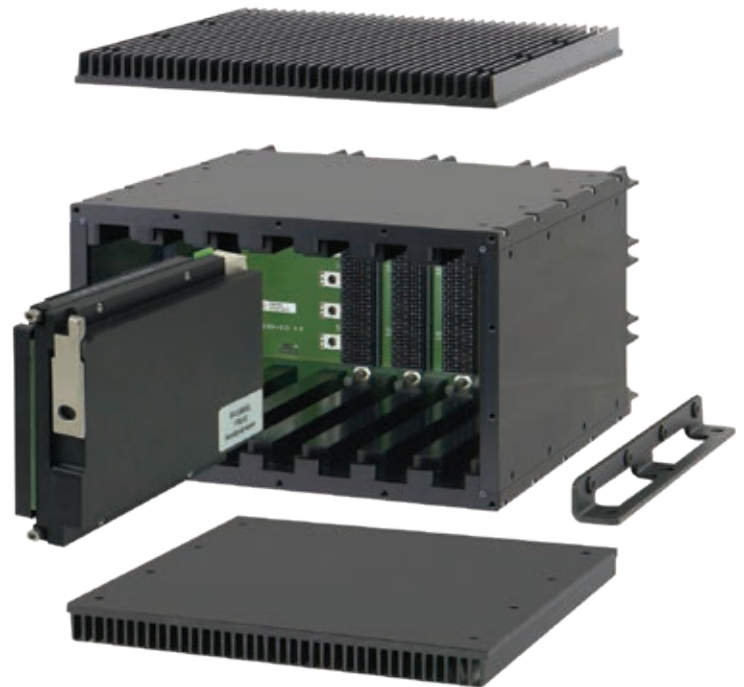
### HIGH CLAMP FORCE PERFORMANCE

- New sawtooth design offers higher clamp force for applications with advanced shock and vibration requirements



\*Performance slightly depends on finish, black anodized performs the best

## CONDUCTION COOLED ASSEMBLIES (CCA)



Designed to retain and cool PCBs in rugged, heavy shock, and high vibration environments commonly found in military and defense and commercial aerospace systems

- Order one part for the assembly: kitting including CCA, Card-Loks, extractors, thermal pads, gasket and mounting hardware to simplify order management
- High thermal designs
- [Downloadable CAD/STEP files](#) based on VITA standards
- Custom design and build to print
- [3D printed prototypes](#) for fit checks at no cost

## EXTRACTORS

The need to simplify and streamline maintenance has resulted in Second-Level Maintenance requirements within the military and defense industry. Conduction cooled assemblies equipped with HTS Card-Loks can be paired with 311 Tolerance Compensating Extractors to ensure effective and efficient maintenance.

Series 311 extractors provide:

- Self-compensation for board tolerances
- Positive pressure on connectors during Card-Lok actuation
- Compliant with VITA 48.4 & 48.2
- Provides 10:1 mechanical advantage
- Other high load extractors according to VITA and IEEE standards available



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