

# 280HTS High Thermal Sawtooth Card-Lok

## CATALOG NUMBER

**MA280HTS-4.30TM3L**



The 280HTS features a unique sawtooth profile design that provides advanced thermal performance and clamping force compared to similarly sized card locks for superior thermal dissipation and protection in high shock and vibration applications. The 280HTS can be a drop in replacement for most existing Series 280 card lok applications.

⚠️ **WARNING:** This product can expose you to chemicals including Chromium (hexavalent compounds), which is known to the State of California to cause cancer and reproductive health issue. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## CERTIFICATIONS



## FEATURES

New sawtooth profile design for advanced thermal performance

Profile 9.27 mm (0.365") x 9.65 mm (0.375")

Weight 2.50 g/cm (0.022 oz/")

Length 71.12 mm (2.8") to 325.12 mm (12.80"), 12.7 mm (0.5") increments

Flexible mounting options

Average clamp force at 113 N-cm (10"-lbs) torque 554 kg (1219 lbs)

Screw actuated

Max expansion 11.68 mm (0.460")

Available with black anodized or electroless nickel plating

For cold wall applications

PRODUCT ATTRIBUTES

|                                   |
|-----------------------------------|
| Product Type: PCB Retainer        |
| Material: Aluminum                |
| Type: High Thermal Sawtooth       |
| Thermal Performance: Best         |
| Profile: 9.27 x 9.65 mm           |
| Clamp Force: 272kgf               |
| Gap Width: PCB + (10.0 - 10.9 mm) |

ADDITIONAL PRODUCT DETAILS

From time to time, nVent may modify its product specification to be in conformity with applicable industry, military or other relevant standards. Unless otherwise mutually agreed in writing, cancelled or superseded military specifications may be certified to the latest or superseding specifications. Products manufactured in conformity with such specifications will be deemed fully compliant whether or not you have been notified of such modifications, even if different from the original specification or those referenced by the customer.

Applications: The Series 280HTS features sawtooth designed profiles along the length of the Card Lok that provide a continuous and uniform surface along the PCB/heat frame and along the cold wall for superior cooling performance.

Average Junction Resistance: Depends on lengths and application.

Average Clamping Force: 554 kg (1219 lbs.) at 113 N-cm (10"-lbs).

Order Information: For customized products contact AskSchroff@nVent.com or 1-800-854-7086. Please provide drawing, quality clauses, and purchase order requirements.

Recomendet Gap width: PCB + 10.29 mm (0.405 in).

WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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