Nicomatic CMM Connectors

Serious Performance. Small Footprint.

Nicomatic CMM connectors offer unmatched versatility, reliability, and performance in extreme environments like those found in aerospace, avionics, defense, instrumentation, control, and transportation.

More functionality in less space:
High-performance signal, power, and high-frequency connections via a platform that takes up to 60% less space and is 50% lighter compared to similar rectangular micro connectors.

One platform, millions of configurations:
Using a hybrid modular architecture, the CMM series supports over 20 million configurations with three contact types: low frequency (LF) for over 5 amps, high frequency (HF) for over 11 GHz, and high power (HP) for over 40 amps. Certain CMM series allow contact types to be mixed within a single connector, with combinations dependent upon the selected series and design requirements.

For demanding applications:
These micro connectors are designed for use in aerospace and defense electronics, space-constrained embedded systems, high-density printed circuit board (PCB) assemblies, and systems requiring mixed signal and power interconnects.



Key Specifications

- 2 mm contact pitch for optimized space efficiency
- 1 to 3 contact rows
- Over 20 million possible configurations
- Signal, power, and coaxial contacts with configurations from 1 to 3 rows, up to 120 pins
- Available with board-to-board, board-to-wire, or wire-to-wire interconnects
- Radiation and solvent resistant
- Wide operating temperature range of -60°C to 260°C*
- Applications include in-flight entertainment systems, head-up displays, flight controls, full authority digital engine control (FADEC) units, radars and missiles, electro-optical sighting systems, satellites, mobile radios and power supplies, UAVs and engine controls, and medical and telecom equipment

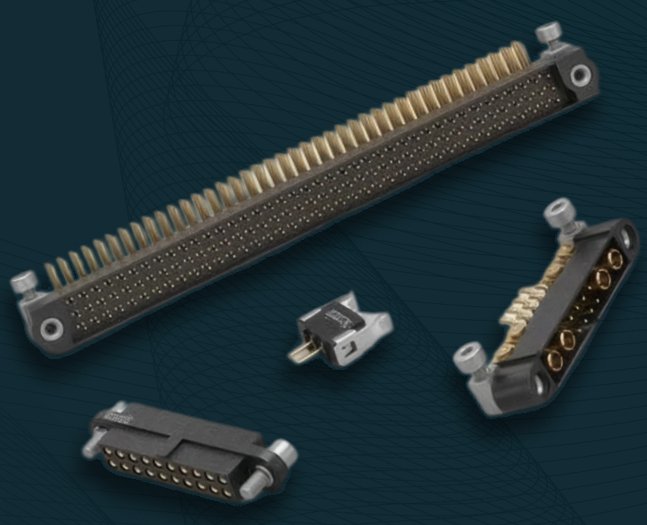
Quick Selection Guide

Choose your connection types:

- ✓ Board-to-board
- ✓ Board-to-wire
- ✓ Wire-to-wire

Choose your termination options:

- ✓ Board solder
- ✓ Surface mount
- ✓ Cable crimp
- ✓ Solder
- ✓ Press-fit



Select the series that matches your design:

Series	Design consideration
CMM 100/200	Single- or double-row signal-only designs
CMM 220	Double-row options for mixed signal, power, and HF contacts
CMM 320	Three-row architecture with high contact density and mixed-contact options
CMM 340	Three-row architecture for high-density special contacts
CMM Multi-Mix	Configurations combining LF, HP, and HF contacts
Note: Final contact counts and combinations may vary by series	

More functionality in less space.

Nicomatic's CMM micro connectors provide a superior interconnection solution for extreme conditions. Contact Powell now to discuss how CMM can meet your application requirements.

**Nicomatic lists PPS insulation properties, vibration and shock resistance, and temperature cycling from –60°C to 260°C for the CMM family. Confirm the exact applicable specifications for the selected part.*

Nicomatic is a leading global designer and manufacturer of micro connectors, complex cable assemblies, and subsystems integrated into electronic equipment.

Powell is a proud distributor of Nicomatic solutions.