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YAMAICHI ELECTRONICS DEUTSCHLAND

for AdvancedMC Connectors





YAMAICHI ELECTRONICS DEUTSCHLAND

AdvancedCMT for AdvancedMC Connector Series



Your contact: <u>www.codico.com</u> mailto: <u>office@codico.com</u>



What is CMT



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CMT means Compression Mount Technology.

A contact technology between an electro-mechanical component (e.g. connector or test adapter for semiconductors) and a printed circuit board (PCB). The electrical contact is established through the compression of the two contact faces by screwing the component to the PCB. A stiffener is screwed from the backside to avoid stress on the PCB.

Easy field repair and component replacement is possible!





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The Advantages



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SPEED

CMT allows the usage of blind via's, micro via's or drillings with

- a very small diameter thus
- reducing stub-effects and reflexion
- reducing cross-talk and insertion loss
- providing characteristic impedance matching
- enabling transmission waveform @12.5 Gbps and above



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The Advantages



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FLEXIBILITY The usage of blind via's, micro via's or drillings with very small diameter also provides

- more space for signal routing on the backplane
- possibilities to reduce the number of backplane layers up to 30%
- cost saving due to less backplane layers





no commonise

The Advantages



RELIABILITY

AdvancedMC connectors from Yamaichi have proven their reliability under vibration, temperature etc. according to all relevant specifications.

CMT connection area:

- Seismic: NEBS Level 3, Zone 4
- Shock: IEC 61587-1 Performance Level DL1
- Drop: NEBS Unpacked Equipment Drop
- Vibration: IEC 61587-1 Performance Level DL1



Vibration Test



Drop Test



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The Advantages



RELIABILITY

AdvancedMC connectors from Yamaichi have proven their reliability under vibration, temperature etc acc. to all relevant specifications.

Card-Edge connection area:

- Yamaichi is using wider contacts to compensate manufacturing tolerances of the PCB → No additional "guiding" needed
- Yamaichi contact shape has the contact point at the bending area (not at the stamping / cutting area)
 - → No damage of the contact surface while mating
 - → Stable contact resistance during the lifetime
 - → Precisely defined contact force



Other Manufacturers

Sheared edge contact



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Product Overview







CN074 Series



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Available Types and Part Numbers

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CN080 Series

CN084 Series

Available Types and Part Numbers

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