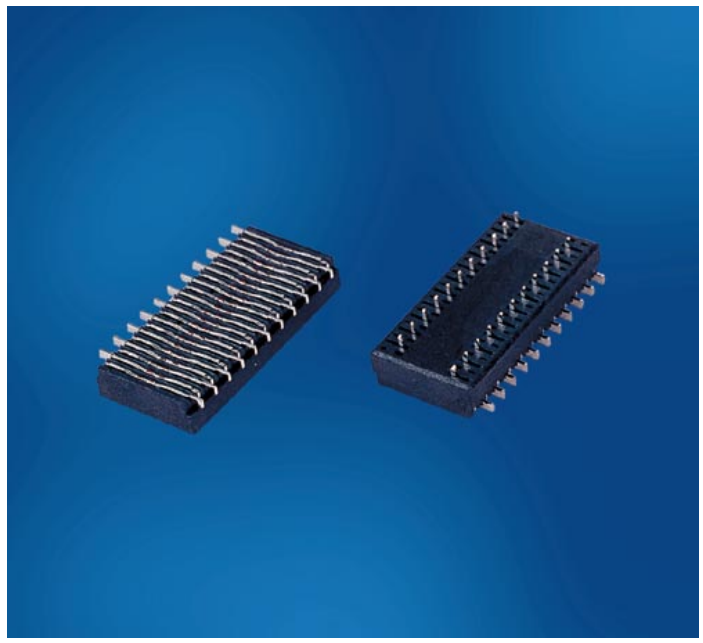
22-Position Compression Connectors

Description

A new series of one-piece compression connectors has emerged as an alternative to two-piece board-to-board connectors. These connectors can be soldered onto a flex circuit or a printed circuit board. They are most suitable for low cost, low profile assembly of board-to-board or board-to-flex electronic devices.

These connectors come with 1.25 mm pitch, with an option of locating post to allow precise alignment on blind mated boards. Upon request, they may be expanded to the preferred contact positions.



Features & Benefits

- One piece connector on 1.25 mm (.049”) and 4.15 mm (.163”) centerlines
- 22-position (also available in 18-position)
- Expandable to other positions
- SMT solder tail
- High temperature plastic compatible with IR and vapor-phase soldering processes
- Contacts compress directly to solder pads on mating PCB
- Locating post option allows blind mating of board to connector
- Mated working height of 2.9 mm
  One-piece design reduces final assembly cost of product
- Designed for cost-effective, full automation
- Suitable for low-profile assembly

Target Markets

- Storage
- Mobile phone
- Consumer

Target Applications

- Read-write application in hard disk drives
- Board-to-board applications in portable electronic devices

Technical Data

Materials

- Housing
  - High temperature plastic (UL 94 V-0)
  - Black Color
  - Applicable solder processes (IR, vapor-phase)
- Contact
  - Terminal (Copper alloy)
- Plating
  - Terminal (Tin lead over Nickel underplate)

For more information, please visit our website at **www.fciconnect.com**
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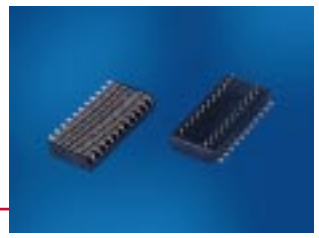


Mechanical Performance

- Contact retention force
  - Terminal (145 gms min.)
- Durability
  - 25 cycles
- Contact normal force
  - 100 gms min.
- Mated working height
  - 2.9 mm

Electrical Performance

- Insulation resistance
  - 1000 MΩ min.
- Withstanding voltage
  - 500V ac
- Current rating
  - Terminal (1 amp continuous)
- Contact resistance
  - 25 mΩ max.

Approvals and Certifications

- UL and CSA approved

Packaging

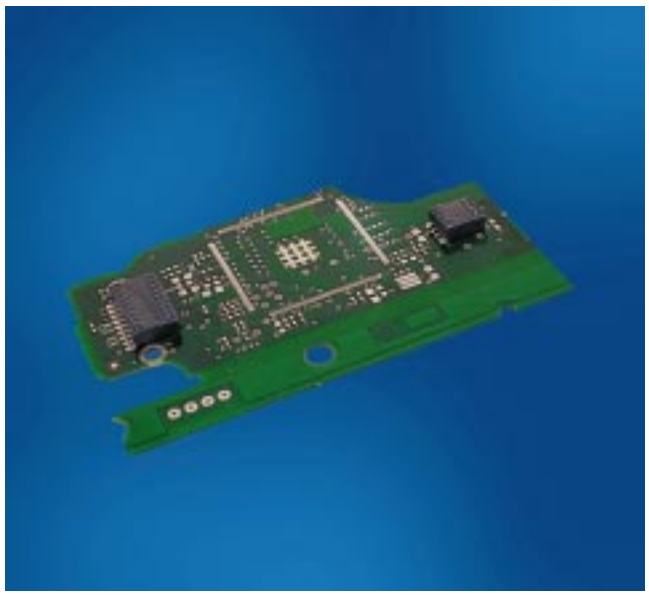
- Tube
- Tape-and-Reel

Ordering Information

- Part Number
  - 55527

Applications

Connector on a Flex Circuit



Connectors on a Printed Circuit Board

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