MINITEK 127™
1.27 mm (.050”) Modular System
FCI: SETTING THE STANDARD FOR CONNECTORS

With 13,000 employees in 30 countries and sales of 1.25 billion euros in 2008, FCI is a leading manufacturer of connectors for various markets such as automotive, telecommunication infrastructures and consumer and industrial electronics.

MINITEK 127™

FLAT CABLE IDC

BOARD TO BOARD
## CONTENTS

### HEADERS

- Vertical - through hole: 4
- Right angle - through hole: 6
- Vertical - SMT: 8
- Right angle - SMT: 10
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- Vertical - SMT - shrouded: 18

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### FLAT CABLE CONNECTORS

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### PART NUMBER INDEX

- 40

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### PART NUMBERING SYSTEM

**Example**

20021221 = shrouded SMT vertical header

<table>
<thead>
<tr>
<th>A = TYPE</th>
<th>B = ATTACH</th>
<th>C = ORIENTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = unshrouded header</td>
<td>1 = TH</td>
<td>1 = vertical</td>
</tr>
<tr>
<td>2 = shrouded header</td>
<td>2 = SMT</td>
<td>2 = right angle</td>
</tr>
<tr>
<td>3 = receptacle</td>
<td>3 = PIP</td>
<td>3 = vertical alternative</td>
</tr>
<tr>
<td>4 = IDC</td>
<td>4 = not applicable</td>
<td>4 = other</td>
</tr>
<tr>
<td>5 = IDC header</td>
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<td>6 = IDC eject header</td>
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<td>7 = CTW</td>
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<td></td>
</tr>
<tr>
<td>8 = stacking header</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 = customization</td>
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<td></td>
</tr>
</tbody>
</table>
MINITEK 127™ VERTICAL THROUGH HOLE HEADERS

TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2$ MΩ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021111
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHS INFORMATION
- This product is RoHS compatible according to the European Union Directive 2002/95/EC

MATING DATA
- Minitek 127™ vertical TH receptacles 22
- Minitek 127™ vertical SMT receptacles 22/24

TYPICAL APPLICATIONS
MINITEK 127™ Vertical Through Hole Headers

PART NUMBERS

<table>
<thead>
<tr>
<th>20021111</th>
<th>000</th>
<th>Positions</th>
<th>T</th>
<th>Plating</th>
<th>LF</th>
</tr>
</thead>
</table>

06, 08, 10, . . . . . . A0

1 = Gold flash
4 = 0.25µm (10µ") gold on contact
8 = 0.76µm (30µ") gold on contact

PRODUCT

Recommended PCB layouts

Dimension : mm (inch)

www.fci.com/minitek127
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2$ MΩ min.
- Contact resistance: 230 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021112
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ vertical TH receptacles  22
- Minitek 127™ vertical SMT receptacles  22/24

TYPICAL APPLICATIONS
MINITEK 127™ Right Angle Through Hole Headers

PART NUMBERS

<table>
<thead>
<tr>
<th>20021112</th>
<th>000</th>
<th>Positions</th>
<th>T</th>
<th>Plating</th>
<th>LF</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>06, 08, 10, . . . . . . A0</td>
<td></td>
<td>1 = Gold flash</td>
<td>4 = 0.25µm (10µ&quot;) gold on contact</td>
</tr>
</tbody>
</table>

PRODUCT

Recommended PCB layouts

Dimension : mm (inch)
### TECHNICAL DATA

#### PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

#### ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2 \, \text{M} \Omega$ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

#### MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

#### OPERATING TEMPERATURE RANGE
- -40°C to +85°C

#### PACKAGING
- Standard: Tube
- Optional: Tube plus pick-up cap
- Optional: Tape and reel plus pick-up cap
  (please check tape availability)

#### PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

#### REFERENCE INFORMATION
- Product drawing: 20021121
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

#### RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

### MATING DATA
- Minitek 127™ vertical TH receptacles  22
- Minitek 127™ vertical SMT receptacles  22/24

### TYPICAL APPLICATIONS
MINITEK 127™ SMT Headers

**PART NUMBERS**

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<thead>
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<th>000</th>
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<th>Packaging</th>
<th>Plating</th>
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<td>04, 06, 08, 10, . . . . . . A0</td>
<td></td>
<td>1 = Gold flash</td>
<td></td>
</tr>
</tbody>
</table>

1 = Gold flash  
4 = 0.25µm (10µ") gold on contact  
8 = 0.76µm (30µ") gold on contact

T = Tube (standard)  
D = Tube plus pick-up cap  
C = Tape and reel

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**PRODUCT**

**PART NUMBERS**

<table>
<thead>
<tr>
<th>20021121</th>
<th>000</th>
<th>XX</th>
<th>C</th>
<th>4</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>04, 06, 08, 12, 16, 20</td>
<td></td>
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</tr>
</tbody>
</table>

**PRODUCT**

Recommended PCB layouts

Dimension: mm (inch)
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2 \, \text{M} \Omega \text{ min.}$
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tube
- Optional: Tube plus pick-up cap

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021122
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ vertical TH receptacles 22
- Minitek 127™ vertical SMT receptacles 22/24

TYPICAL APPLICATIONS
MINITEK 127™ Right Angle SMT Headers

PART NUMBERS

| 2 0 0 2 1 1 2 2 | 0 0 0 | Positions | Packaging | Plating | LF |

10, 12, 14, . . . . . . 98

1 = Gold flash
4 = 0.25µm (10µ") gold on contact
8 = 0.76µm (30µ") gold on contact

T = Tube (standard)
D = Tube plus pick-up cap

PRODUCT

Recommended PCB layouts

Dimension : mm (inch)

www.fci.com/minitek127
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: 1 x 10^6 MΩ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB.

REFERENCE INFORMATION
- Product drawing: 200218xx
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ vertical TH receptacles 22
- Minitek 127™ vertical SMT receptacles 22/24

TYPICAL APPLICATIONS
MINITEK 127™ Unshrouded Stacking Headers

PART NUMBERS

<table>
<thead>
<tr>
<th>200218</th>
<th>Tail</th>
<th>Pin style</th>
<th>Stack height</th>
<th>Positions</th>
<th>T</th>
<th>Plating</th>
<th>LF</th>
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<tbody>
<tr>
<td>00218</td>
<td>200</td>
<td>200218</td>
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<td></td>
<td>3</td>
<td>A</td>
<td></td>
<td></td>
<td>1</td>
</tr>
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1 = 2.5 mm (.098)
2 = 3.0 mm (.118)
3 = SMT

<table>
<thead>
<tr>
<th>Pin Style</th>
<th>Overall length TH mm (inch)</th>
<th>Overall length SMT mm (inch)</th>
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<tbody>
<tr>
<td>0</td>
<td>8 (.315)</td>
<td>6.2 (.244)</td>
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<tr>
<td>1</td>
<td>10 (.394)</td>
<td>8.2 (.323)</td>
</tr>
<tr>
<td>2</td>
<td>12 (.472)</td>
<td>10.2 (.402)</td>
</tr>
<tr>
<td>3</td>
<td>14 (.551)</td>
<td>12.2 (.480)</td>
</tr>
<tr>
<td>4</td>
<td>16 (.623)</td>
<td>14.2 (.559)</td>
</tr>
</tbody>
</table>

06 = Gold flash
4 = 0.25µm (10µ") gold on contact
8 = 0.76µm (30µ") gold on contact

PRODUCT

Recommended P.C.B. Layout (TH)

Recommended P.C.B. Layout (SMT)

Recommended PCB layouts

Dimension: mm (inch)
MINITEK 127™ VERTICAL THROUGH HOLE SHROUDED HEADERS

TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40µ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2$ MΩ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021211
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ vertical TH receptacles 22
- Minitek 127™ vertical SMT receptacles 22/24

TYPICAL APPLICATIONS
MINITEK 127™ Vertical Through Hole Shrouded Headers

PART NUMBERS

**2 0 0 2 1 2 1 1**

- **000** Positions
- **T**
- **Plating**
- **LF**

**06, 08, 10, . . . . . . A0**

- **1 = Gold flash**
- **4 = 0.25µm (10µ”) gold on contact**
- **8 = 0.76µm (30µ”) gold on contact**

PRODUCT

Recommended PCB layouts

Dimension: mm (inch)
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: 1 x 10² MΩ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021212
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ vertical TH receptacles 22
- Minitek 127™ vertical SMT receptacles 22/24

TYPICAL APPLICATIONS
MINITEK 127™ Right Angle Through Hole Shrouded Headers

PART NUMBERS

<table>
<thead>
<tr>
<th>20021212</th>
<th>000</th>
<th>Positions</th>
<th>T</th>
<th>Plating</th>
<th>LF</th>
</tr>
</thead>
</table>

06, 08, 10, .... A0

1 = Gold flash
4 = 0.25µm (10µ") gold on contact
8 = 0.76µm (30µ") gold on contact

PRODUCT

Recommended PCB layouts

Dimension: mm (inch)

www.fci.com/minitek127
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ”) nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2 \, \text{MΩ}$ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tube
- Optional: Tube plus pick-up cap
- Optional: Tape and reel plus pick-up cap
  (please check tape availability)

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021221
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ vertical TH receptacles 22
- Minitek 127™ vertical SMT receptacles 22/24

TYPICAL APPLICATIONS

MINITEK 127™ VERTICAL SMT SHROUDED HEADERS
MINITEK 127™ Vertical SMT Shrouded Headers

PART NUMBERS

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<tr>
<th>20021221 - 000</th>
<th>Positions</th>
<th>Packaging</th>
<th>Plating</th>
<th>LF</th>
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</thead>
<tbody>
<tr>
<td>XX = 06, 08, 10, 12, 16, 20, 26, 30, 34, 40, 44, 50, 60, 64, 66, 68, 80, A0</td>
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<table>
<thead>
<tr>
<th>20021221 - 000</th>
<th>XX</th>
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<th>4</th>
<th>LF</th>
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<tbody>
<tr>
<td>XX = 06, 08, 10, 12, 16, 20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 06, 08, 10, 12, 14, 16, 20, 26, 30, 34, 40, 44, 50, 60, 64, 66, 68, 80, A0
- \( T = \text{Tube (standard)} \)
- \( D = \text{Tube plus pick-up cap} \)
- \( C = \text{Tape and reel} \)
- \( 1 = \text{Gold flash} \)
- \( 4 = 0.25\mu \text{m (10\mu") gold on contact} \)
- \( 8 = 0.76\mu \text{m (30\mu") gold on contact} \)

PRODUCT

Recommended PCB layouts

Dimension: mm (inch)

www.fci.com/minitek127
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.27 μm (50μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2 \, \Omega$ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021311
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ vertical TH headers: 4
- Minitek 127™ right angle TH headers: 6
- Minitek 127™ vertical SMT headers: 8
- Minitek 127™ right angle SMT headers: 10
- Minitek 127™ stacking TH/SMT headers: 12
- Minitek 127™ vertical TH shrouded headers: 14
- Minitek 127™ right angle TH shrouded headers: 16
- Minitek 127™ vertical SMT shrouded headers: 18

TYPICAL APPLICATIONS
MINITEK 127™ Vertical Through Hole Receptacles

PART NUMBERS

<table>
<thead>
<tr>
<th>20021311</th>
<th>Positions</th>
<th>T</th>
<th>Plating</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>10, 12, 14, . . . 80</td>
<td>1 = Gold flash</td>
<td>4 = 0.25μm (10μ&quot;) gold on contact</td>
<td>8 = 0.76μm (30μ&quot;) gold on contact</td>
</tr>
</tbody>
</table>

XX = 06, 08, 10, 12, 16, 20

PRODUCT

Recommended PCB layouts

Dimension:  mm (inch)

www.fci.com/minitek127
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.27 μm (50μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2 \, \text{M} \Omega \text{ min.}$
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tube
- Optional: Tube plus pick-up cap
- Optional: Tape and reel plus pick-up cap
  (please check tape availability)

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021321
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ vertical TH headers 4
- Minitek 127™ right angle TH headers 6
- Minitek 127™ vertical SMT headers 8
- Minitek 127™ right angle SMT headers 10
- Minitek 127™ stacking TH/SMT headers 12
- Minitek 127™ vertical TH shrouded headers 14
- Minitek 127™ right angle TH shrouded headers 16
- Minitek 127™ vertical SMT shrouded headers 18

TYPICAL APPLICATIONS
MINITEK 127™ Vertical SMT Receptacles

PART NUMBERS

<table>
<thead>
<tr>
<th>20021321</th>
<th>000</th>
<th>Positions</th>
<th>Packaging</th>
<th>Plating</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>6, 10, 12, . . . . . 80</td>
<td></td>
<td>1 = Gold flash</td>
<td>1</td>
</tr>
</tbody>
</table>

XX = 06, 10, 12, 16, 20

PART NUMBERS

| 20021321 | 000 | XX | C | 4 | LF |

T = Tube (standard)
D = Tube plus pick-up cap
C = Tape and reel

PRODUCT

Recommended PCB layouts

Dimension: mm (inch)
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.27 μm (50μ”) nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: 1 x 10^2 MΩ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tube
- Optional: Tube plus pick-up cap
- Optional: Tape and reel plus pick-up cap (please check tape availability)

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021323
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ vertical TH headers  4/6
- Minitek 127™ vertical SMT headers  8/10
- Minitek 127™ stacking TH/SMT headers  12

TYPICAL APPLICATIONS
- Minitek 127™ vertical TH headers
- Minitek 127™ vertical SMT headers
- Minitek 127™ stacking TH/SMT headers
MINITEK 127™ Vertical SMT Bottom Entry Receptacles

**PART NUMBERS**

<table>
<thead>
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<th>20021323</th>
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<th>Packaging</th>
<th>Plating</th>
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<tr>
<td>10, 12, 14, ..., 80</td>
<td>1 = Gold flash</td>
<td>4 = 0.25µm (10µ”) gold on contact</td>
<td>8 = 0.76µm (30µ”) gold on contact</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

T = Tube (standard)
D = Tube plus pick-up cap
C = Tape and reel

**PRODUCT**

**Recommended PCB layouts**

Dimension: mm (inch)
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: 1 x 10³ MΩ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021444
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ IDC TH headers
- Minitek 127™ IDC SMT headers
- Minitek 127™ IDC right angle TH headers
- Minitek 127™ TH eject headers
- Minitek 127™ right angle eject headers
- Minitek 127™ SMT eject headers

TYPICAL APPLICATIONS
MINITEK 127™ IDC Receptacles

PART NUMBERS

20021444 - 000 Positions T Plating LF

06, 08, 10, 12, 14, 16, 20, 24, 26, 30, 34, 40, 44, 50, 60, 64, 66, 68, A0

1 = Gold flash
4 = 0.25µm (10µ") gold on contact
8 = 0.76µm (30µ") gold on contact

XX = 06, 10, 12, 16, 20

PRODUCT

Dimension : mm (inch)

Dim.A

Dim.B

2.00 (.079)
0.76 (.030)
1.27 (.050)
1.27 (.050)
3.46 (.136)
1.75 (.069)
3.30 (.118)
1.27 (.050)

www.fci.com/minitek127
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^5 \; \Omega$ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021511
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHS INFORMATION
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ IDC receptacle
- Minitek 127™ IDC plug

TYPICAL APPLICATIONS
MINITEK 127™ Vertical Through Hole IDC Headers

PART NUMBERS

![Part Numbers Diagram]

PRODUCT

![Product Diagram]

Recommended PCB layouts

Dimension: mm (inch)
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: 1 x 10^2 MΩ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021521
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ IDC receptacle

TYPICAL APPLICATIONS
MINITEK 127™ Vertical SMT IDC Headers

### PART NUMBERS

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<tr>
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<th>0 0 0</th>
<th>Positions</th>
<th>C</th>
<th>Plating</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>06, 10, 12, 14, 16, 20, 26, 30, 34, 40, 44, 50, 60, 64, 68, 80, A0</td>
<td></td>
<td></td>
<td></td>
<td>1 = Gold flash</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 = 0.25µm (10µ”) gold on contact</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8 = 0.76µm (30µ”) gold on contact</td>
<td></td>
</tr>
</tbody>
</table>

### PRODUCT

**Recommended PCB layouts**

**Dimension:** mm (inch)

---

[Diagram of PCB layout]

www.fci.com/minitek127
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2 \, \text{MΩ}$ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021512
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC
MINITEK 127™ Right Angle Through Hole IDC Headers

PART NUMBERS

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<th>000</th>
<th>Positions</th>
<th>T</th>
<th>Plating</th>
<th>LF</th>
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06, 10, 12, 14, 16, 20, 26, 30, 34, 40, 44, 50, 60, 64, 68, 80, A0

1 = Gold flash
4 = 0.25µm (10µ") gold on contact
8 = 0.76µm (30µ") gold on contact

PRODUCT

Recommended PCB layouts

Dimension: mm (inch)

www.fci.com/minitek127
TECHNICAL DATA

PHYSICAL
- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold over 1.0 μm (40μ") nickel

ELECTRICAL PERFORMANCE
- Current rating: 1 A continuous
- Insulation resistance: $1 \times 10^2$ MΩ min.
- Contact resistance: 30 mΩ max.
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V.

MECHANICAL PERFORMANCE
- Mating cycles (durability): 100.

OPERATING TEMPERATURE RANGE
- -40°C to +85°C

PACKAGING
- Standard: Tubes

PROCESSING INFORMATION
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION
- Product drawing: 20021611
- Product specification: GS-12-629
- Packaging specification: GS-14-1420

RoHs INFORMATION
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA
- Minitek 127™ IDC receptacle 26

TYPICAL APPLICATIONS
MINITEK 127™ Vertical Through Hole Eject Headers

PART NUMBERS

<table>
<thead>
<tr>
<th>20021611</th>
<th>000</th>
<th>Positions</th>
<th>T</th>
<th>Plating</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>06, 10, 12, 14, 16, 20, 26, 30, 34, 40, 44, 50, 60, 64, 68, 80, A0</td>
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</tbody>
</table>

1 = Gold flash  
4 = 0.25μm (10µ”) gold on contact  
8 = 0.76μm (30µ”) gold on contact

PRODUCT

Recommended PCB layouts

Dimension: mm (inch)

www.fci.com/minitek127
**TECHNICAL DATA**

- **PHYSICAL**
  - Housing: High-temperature, black thermoplastic
  - Flammability rating: UL 94 V-0
  - Pin: Copper Alloy
  - Plating: Gold over 1.0 μm (40μ") nickel

- **ELECTRICAL PERFORMANCE**
  - Current rating: 1 A continuous
  - Insulation resistance: $1 \times 10^2 \text{ M} \Omega \text{ min.}$
  - Contact resistance: 30 mΩ max.
  - Dielectric withstanding voltage: 500 V
  - Voltage rating: 125 V

- **MECHANICAL PERFORMANCE**
  - Mating cycles (durability): 100.

- **OPERATING TEMPERATURE RANGE**
  - -40°C to +85°C

- **PACKAGING**
  - Standard: Tubes

- **PROCESSING INFORMATION**
  - The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

- **REFERENCE INFORMATION**
  - Product drawing: 20021612
  - Product specification: GS-12-629
  - Packaging specification: GS-14-1420

- **RoHs INFORMATION**
  - This product is RoHs compatible according to the European Union Directive 2002/95/IEC

---

**MATING DATA**

- Minitek 127™ IDC receptacle 26

---

**TYPICAL APPLICATIONS**

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# MINITEK 127™ Right Angle Through Hole Eject Headers

## PART NUMBERS

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<tr>
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</tr>
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</table>

- 06, 10, 12, 14, 16, 20, 26, 30, 34, 40, 44, 50, 60, 64, 68, 80, A0

1 = Gold flash
4 = 0.25µm (10µ") gold on contact
8 = 0.76µm (30µ") gold on contact

## PRODUCT

**Recommended PCB layouts**

- Dimension: mm (inch)

**Recommended PCB layouts**

- Dimension: mm (inch)
MINITEK 127™ VERTICAL SMT EJECT HEADERS

TECHNICAL DATA

- PHYSICAL
  - Housing: High-temperature, black thermoplastic
  - Flammability rating: UL 94 V-0
  - Pin: Copper Alloy
  - Plating: Gold over 1.0 μm (40μ") nickel

- ELECTRICAL PERFORMANCE
  - Current rating: 1 A continuous
  - Insulation resistance: $1 \times 10^2$ MΩ min.
  - Contact resistance: 30 mΩ max.
  - Dielectric withstanding voltage: 500 V
  - Voltage rating: 125 V.

- MECHANICAL PERFORMANCE
  - Mating cycles (durability): 100.

- OPERATING TEMPERATURE RANGE
  - -40°C to +85°C

- PACKAGING
  - Standard: Tape and reel plus pick-up cap

- PROCESSING INFORMATION
  - The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

- REFERENCE INFORMATION
  - Product drawing: 20021621
  - Product specification: GS-12-629
  - Packaging specification: GS-14-1420

- RoHs INFORMATION
  - This product is RoHs compatible according to the European Union Directive 2002/95/IEC

MATING DATA

- Minitek 127™ IDC receptacle 26

TYPICAL APPLICATIONS
MINITEK 127™ Vertical SMT Eject Headers

PART NUMBERS

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<td>06, 10, 12, 14, 16, 20, 26, 30, 34, 40, 44, 50, 60, 64, 68, 80, A0</td>
<td>Gold flash</td>
<td>1 = Gold flash</td>
<td>4 = 0.25μm (10μ&quot;) gold on contact</td>
<td>8 = 0.76μm (30μ&quot;) gold on contact</td>
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PRODUCT

Recommended PCB layouts

Dimension: mm (inch)

www.fci.com/minitek127
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