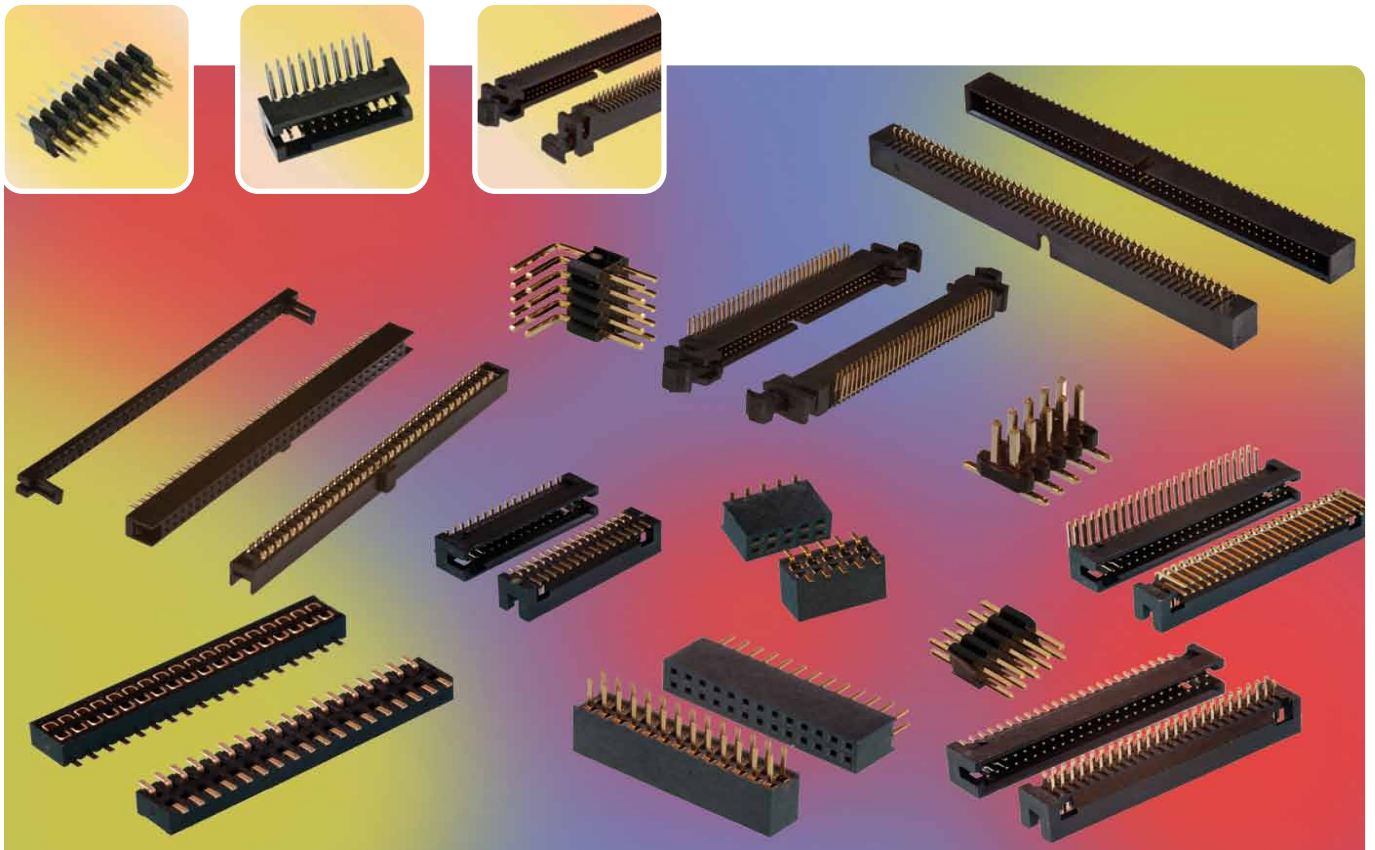




 ELECTRONICS

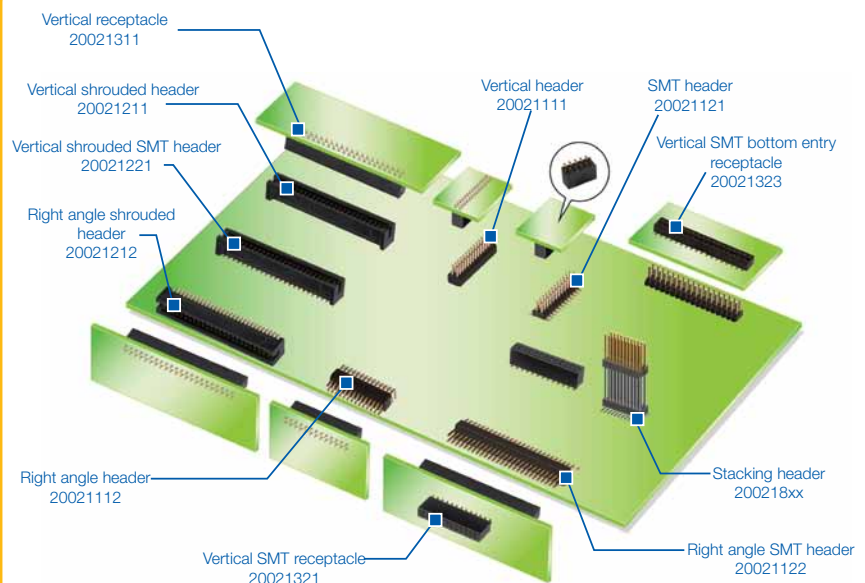
Minitek127®

1.27 mm (.050") Modular System

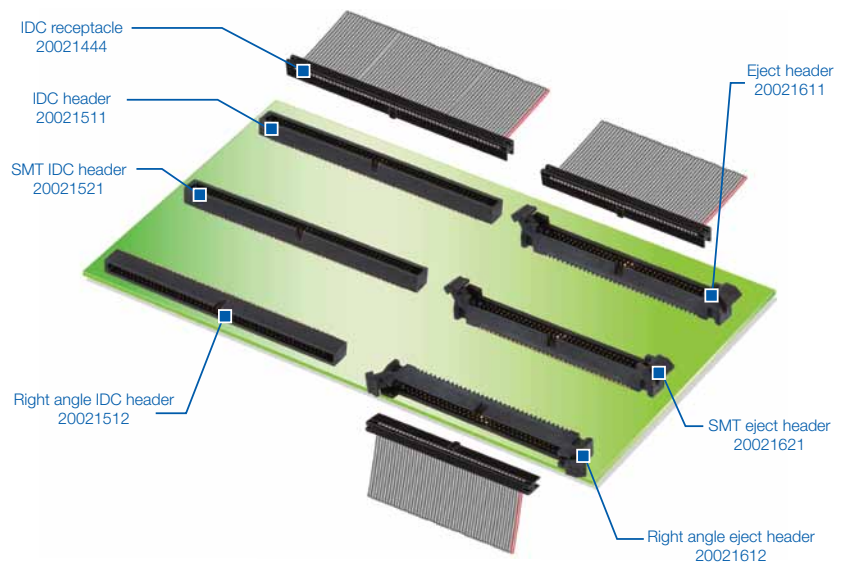
With 6,500 employees globally and sales of 555M USD in 2012, FCI Electronics is a leading global manufacturer of various markets such as datacom, telecom, consumer, industrial, instrumentation, medical and renewable energy.

Minitex127®

BOARD TO BOARD



FLAT CABLE IDC



HEADERS



Vertical - through hole	4
Right angle - through hole	6
Vertical - SMT	8
Right angle - SMT	10
Stacking - SMT - through hole	12
Vertical - through hole - shrouded	14
Right angle - through hole - shrouded	16
Vertical - SMT - shrouded	18

PCB RECEPTACLES



Vertical - through hole	20
Vertical - SMT	22
Vertical - SMT - bottom entry	24

FLAT CABLE CONNECTORS



IDC Receptacles	26
Header - through hole	28
Header - SMT	30
Right angle header - through hole	32
Eject header - through hole	34
Eject header - right angle	36
Eject header - SMT	38

PART NUMBER INDEX

40

PART NUMBERING SYSTEM

Example

20021221 = shrouded SMT vertical header

2 0 0 2 1 A B C

A = TYPE

- 1 = unshrouded header
- 2 = shrouded header
- 3 = receptacle
- 4 = IDC
- 5 = IDC header
- 6 = IDC eject header
- 7 = CTW
- 8 = stacking header
- 9 = customization

B = ATTACH

- 1 = TH
- 2 = SMT
- 3 = PIP
- 4 = not applicable



= TH (Through Hole)

= SMT (Surface Mount)

C = ORIENTATION

- 1 = vertical
- 2 = right angle
- 3 = vertical alternative
- 4 = other

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic, Halogen free
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

- -55°C to +125°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

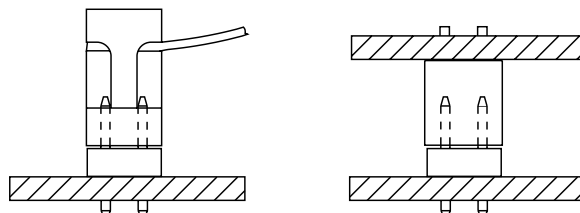
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

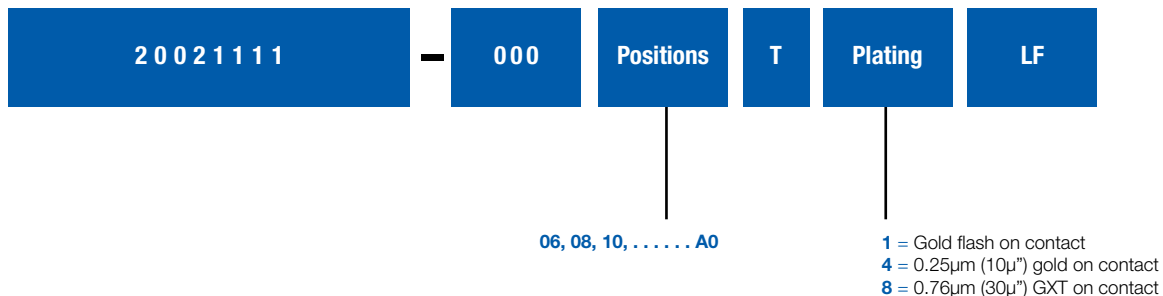
- Minitek127® vertical TH receptacles 22
- Minitek127® vertical SMT receptacles 22/24

TYPICAL APPLICATIONS

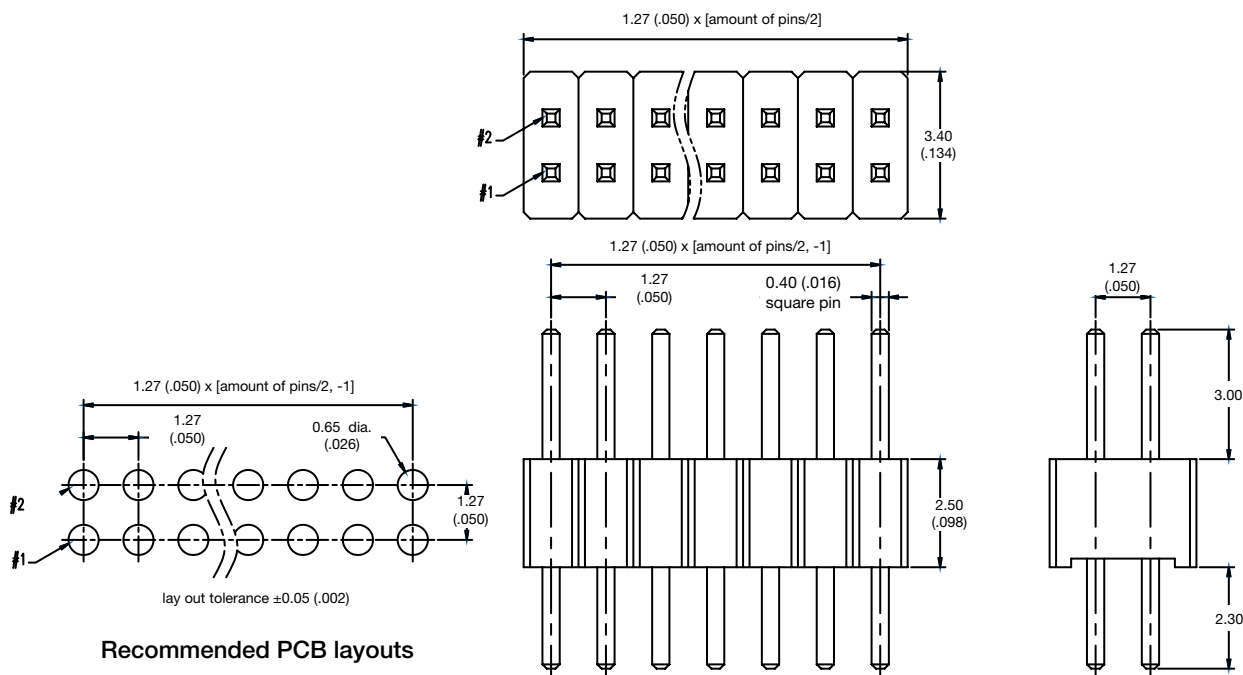


Minitek127® Vertical Through Hole Headers

PART NUMBERS



PRODUCT



Recommended PCB layouts

Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic, Halogen free
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

- -55°C to +125°C

PACKAGING

- Standard: Tubes

PROCESSING INFORMATION

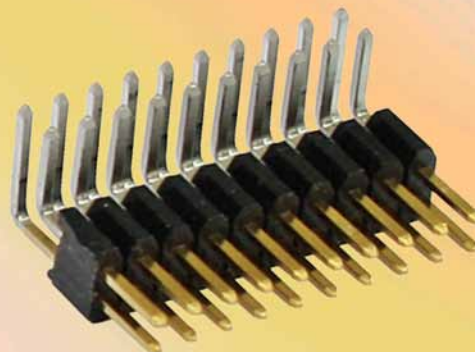
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION

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

RoHS INFORMATION

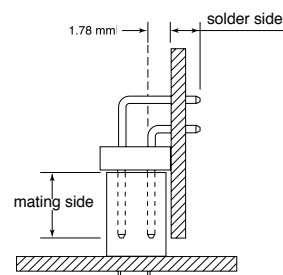
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

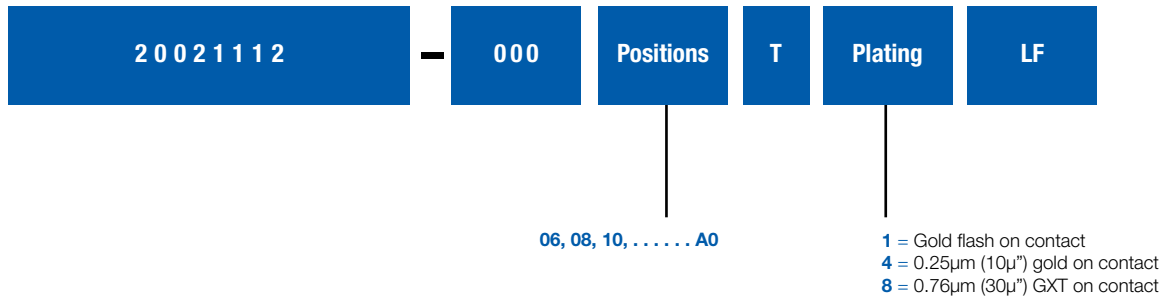
- Minitek127® vertical TH receptacles 22
- Minitek127® vertical SMT receptacles 22/24

TYPICAL APPLICATIONS

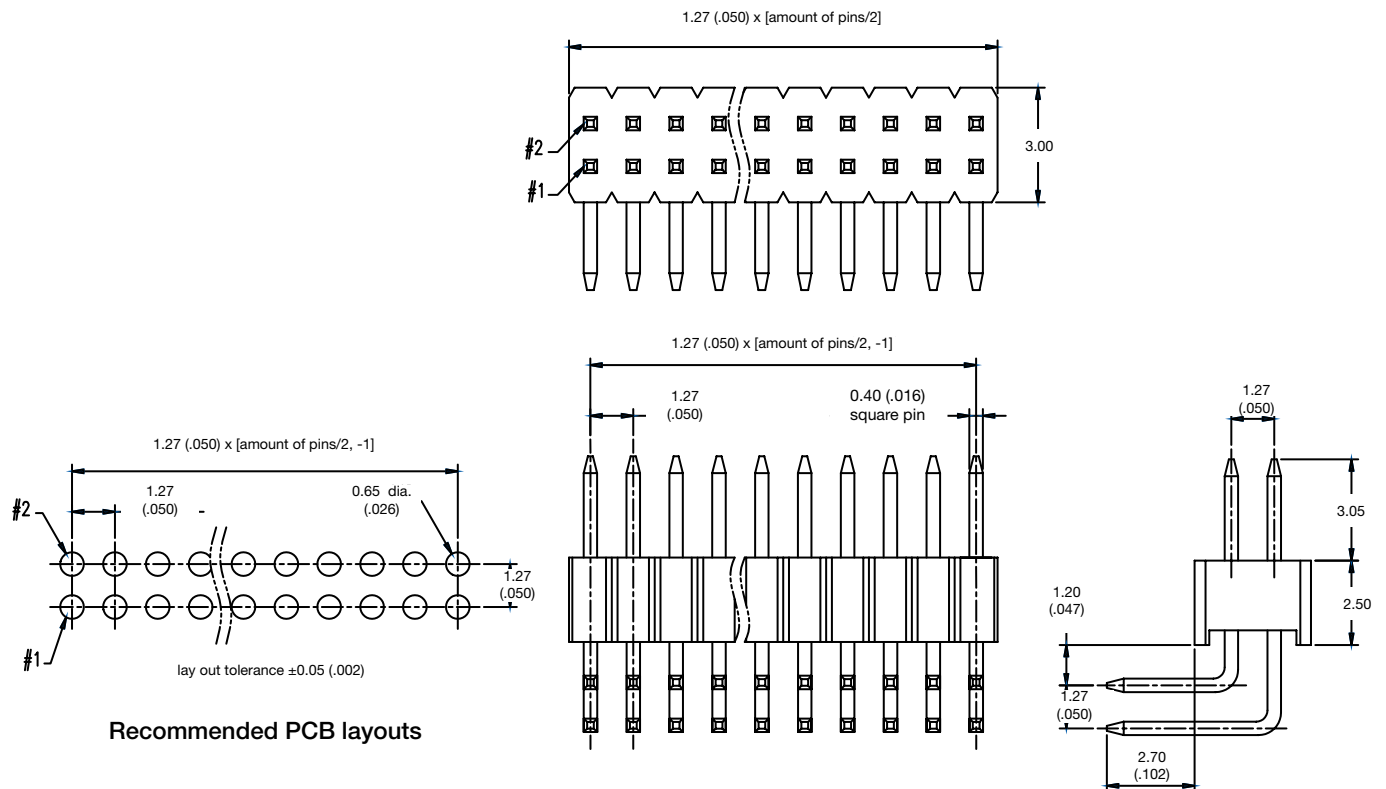


Minitek127® Right Angle Through Hole Headers

PART NUMBERS



PRODUCT



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic, Halogen free
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

- -55°C to +125°C

PACKAGING

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

PROCESSING INFORMATION

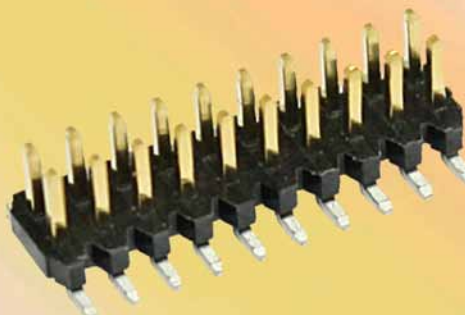
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a convection infra-red or vapor phase reflow oven

REFERENCE INFORMATION

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

RoHS INFORMATION

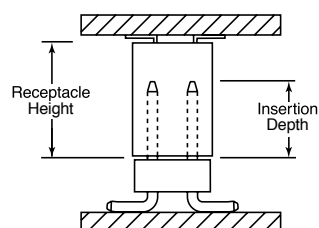
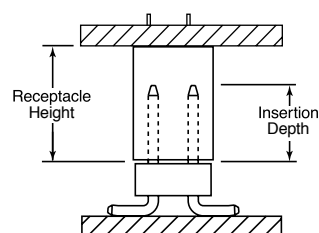
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

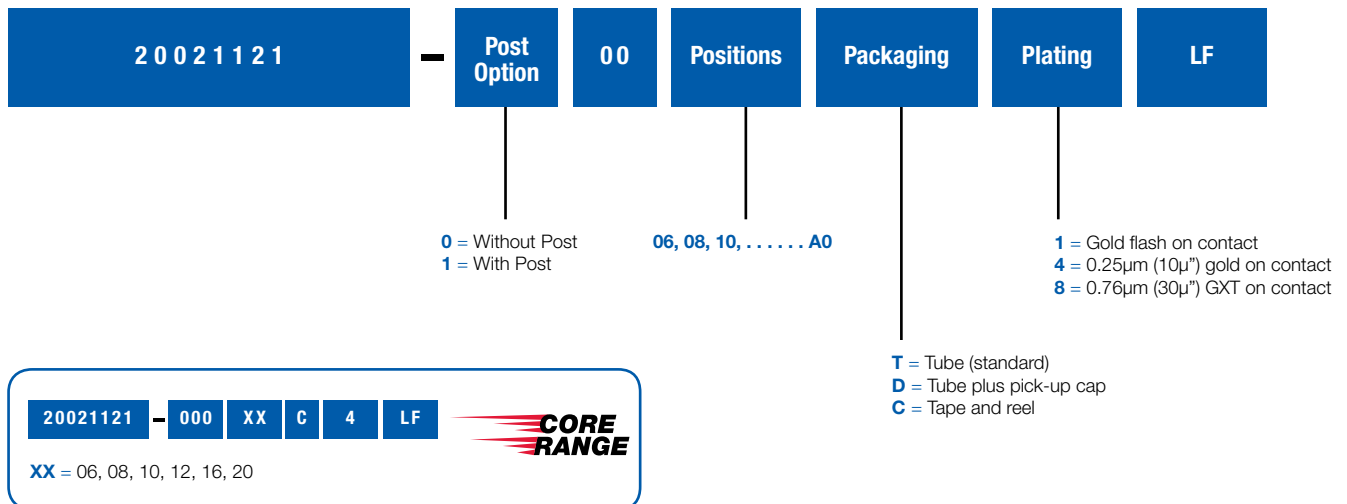
- Minitek127® vertical TH receptacles 22
- Minitek127® vertical SMT receptacles 22/24

TYPICAL APPLICATIONS

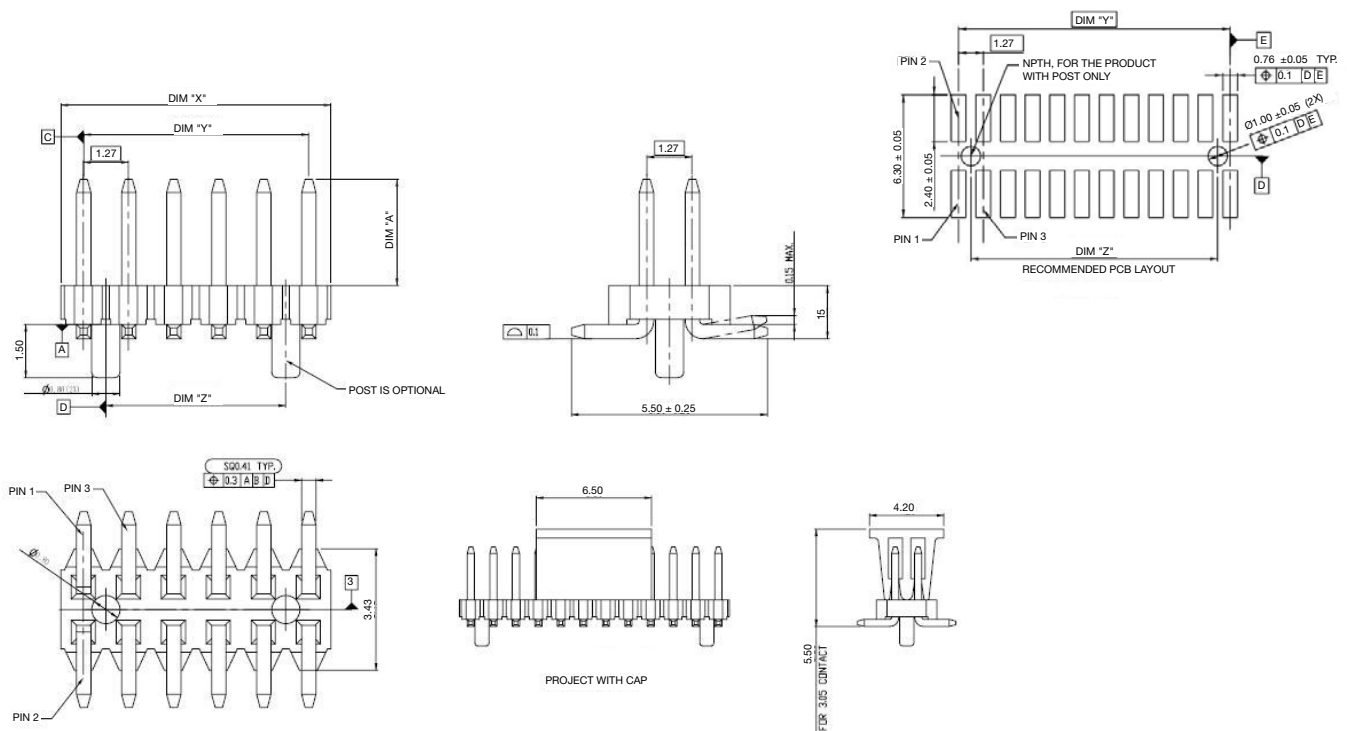


Minitek127® SMT Headers

PART NUMBERS



PRODUCT



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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

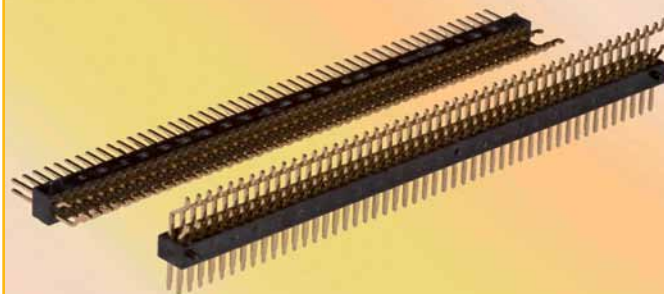
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a convection infra-red or vapor phase reflow oven

REFERENCE INFORMATION

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

RoHs INFORMATION

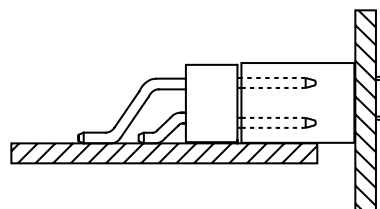
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

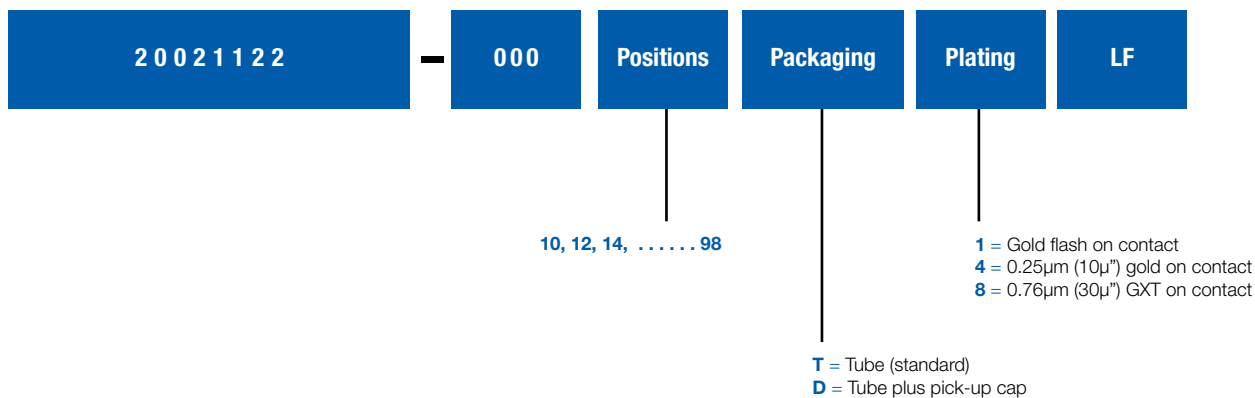
- Minitek127® vertical TH receptacles 22
- Minitek127® vertical SMT receptacles 22/24

TYPICAL APPLICATIONS

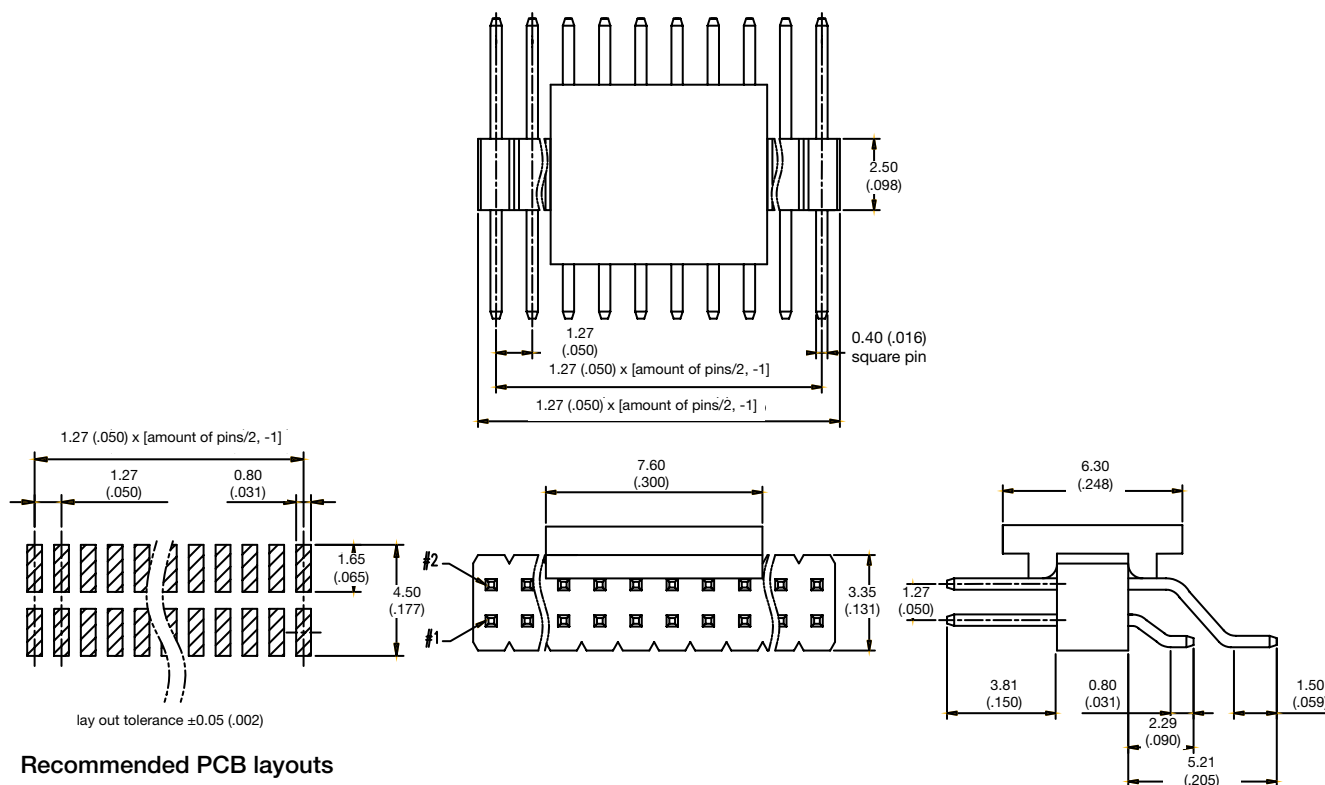


Minitek127® Right Angle SMT Headers

PART NUMBERS



PRODUCT



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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 vertical through hole product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application, while SMT product will withstand exposure to 260°C peak temperature for 10 seconds in a convection infra-red or vapor phase reflow oven

REFERENCE INFORMATION

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

RoHs INFORMATION

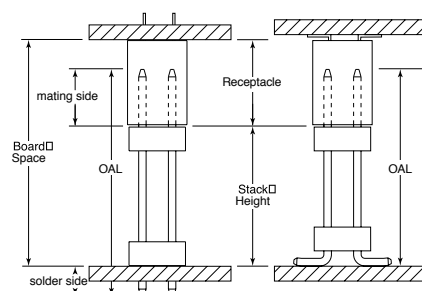
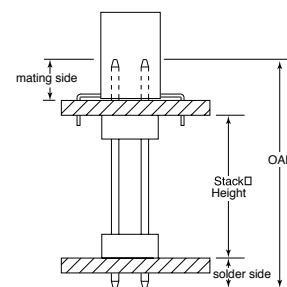
- This product is RoHs compatible according to the European Union Directive 2002/95/IEC



MATING DATA

- Minitek127® vertical TH receptacles 22
- Minitek127® vertical SMT receptacles 22/24

TYPICAL APPLICATIONS



Minitek127® Unshrouded Stacking Headers

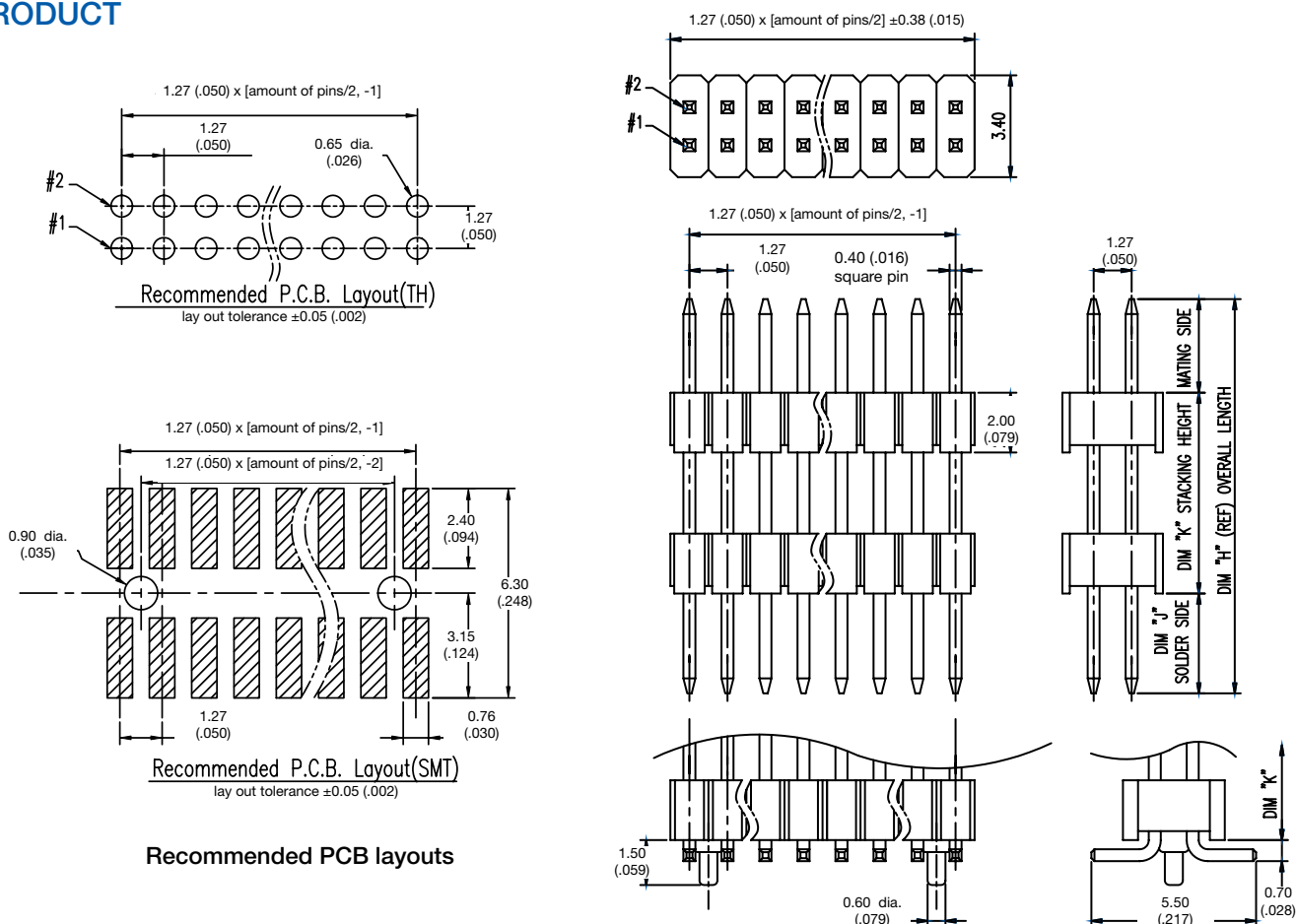
PART NUMBERS

2 0 0 2 1 8	Tail	Pin style	Stack height	Positions	T	Plating	LF
	1 = 2.5 mm (.098) 2 = 3.0 mm (.118) 3 = SMT			06, 08, 10, A0		1 = Gold flash on contact 4 = 0.25µm (10µ") gold on contact 8 = 0.76µm (30µ") GXT on contact	

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

040 = 4.0 mm (.157)
 045 = 4.5 mm (.177)
 050 = 5.0 mm (.197)
 ↓
 095 = 9.5 mm (.374)
 100 = 10.0 mm (.394)

PRODUCT



TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic, Halogen free
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

- -55°C to +125°C

PACKAGING

- Standard: Tubes

PROCESSING INFORMATION

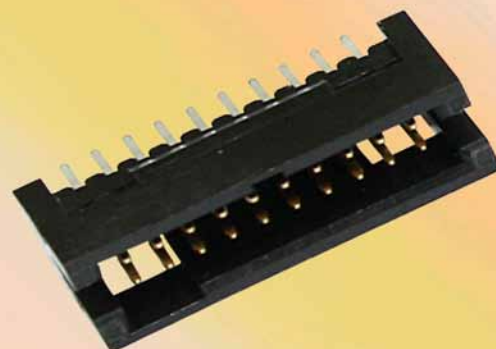
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION

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

RoHS INFORMATION

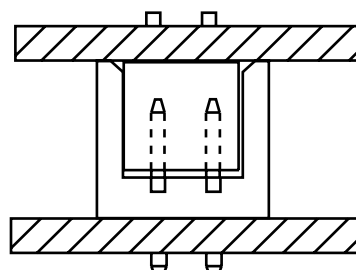
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

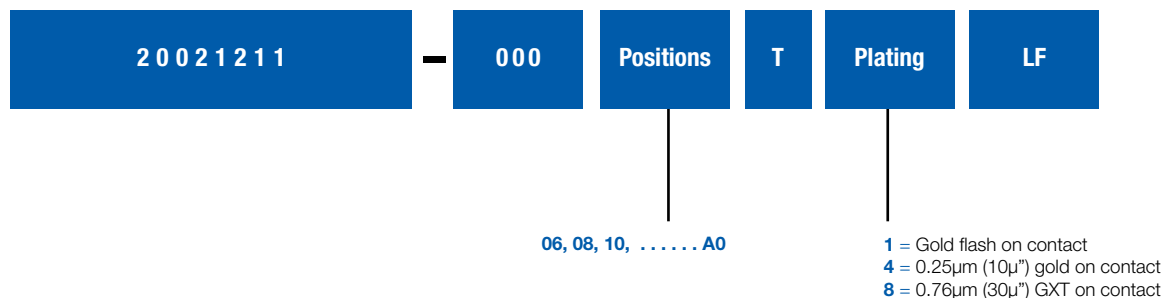
- | | |
|--|-------|
| ■ Minitek127® vertical TH receptacles | 22 |
| ■ Minitek127® vertical SMT receptacles | 22/24 |

TYPICAL APPLICATIONS

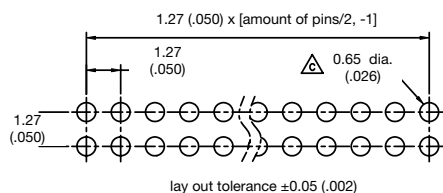
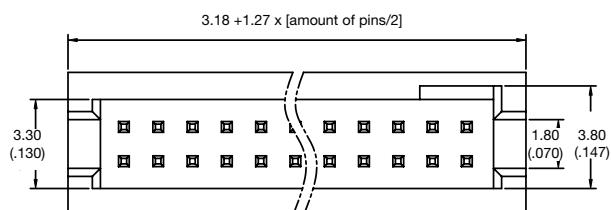


Minitek127® Vertical Through Hole Shrouded Headers

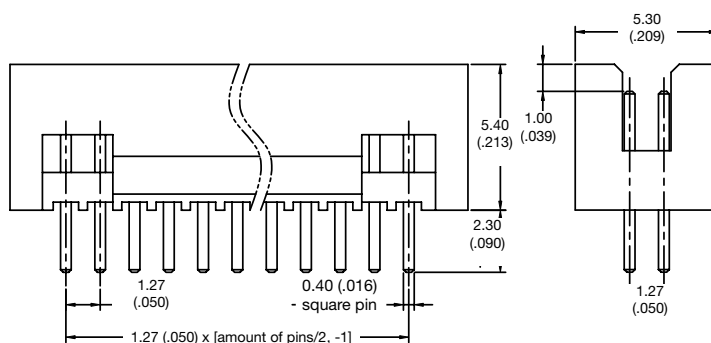
PART NUMBERS



PRODUCT



Recommended PCB layouts



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic, Halogen free
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

- -55°C to +125°C

PACKAGING

- Standard: Tubes

PROCESSING INFORMATION

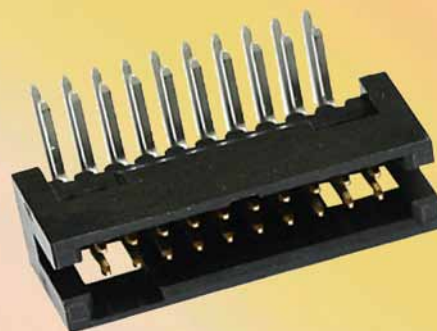
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION

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

RoHS INFORMATION

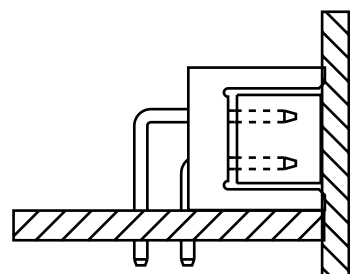
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

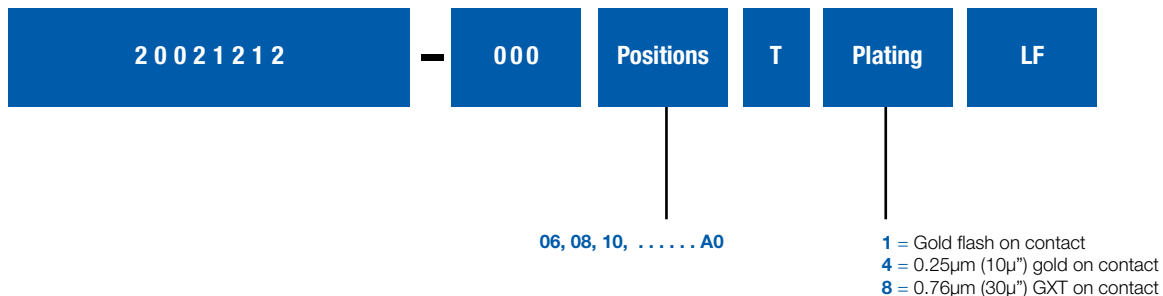
- | | |
|--|-------|
| ■ Minitek127® vertical TH receptacles | 22 |
| ■ Minitek127® vertical SMT receptacles | 22/24 |

TYPICAL APPLICATIONS

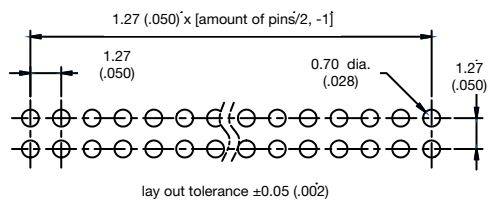
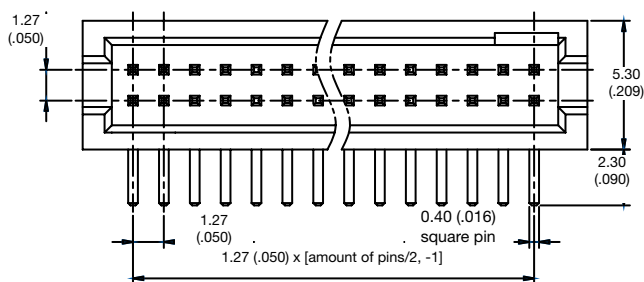


Minitek127® Right Angle Through Hole Shrouded Headers

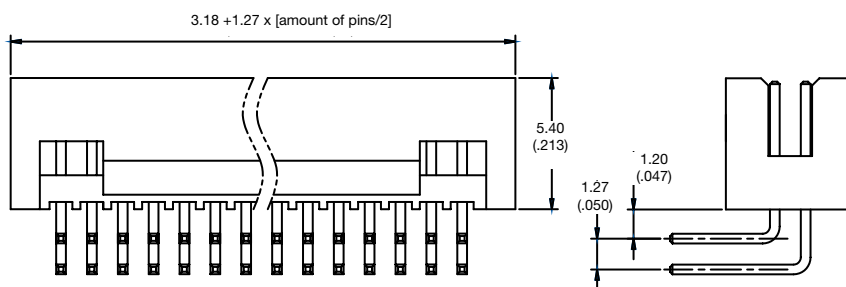
PART NUMBERS



PRODUCT



Recommended PCB layouts



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic, Halogen free
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

- -55°C to +125°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 convection infra-red or vapor phase reflow oven

REFERENCE INFORMATION

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

RoHS INFORMATION

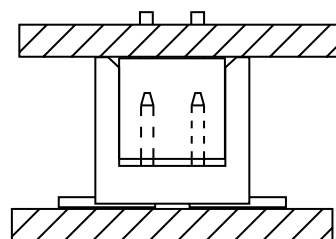
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

- Minitek127® vertical TH receptacles 22
- Minitek127® vertical SMT receptacles 22/24

TYPICAL APPLICATIONS



20021221 - **Post Option** **00** **Positions** **Packaging** **Plating** **LF**

0 = Without Post
1 = With Post

06, 08, 10, 12, 14, 16, 20, 26, 30, 34, 40, 44, 50, 60, 64, 66, 68, 80, A0

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

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

Technical drawings of the 16-pin connector, including dimensions and labels:

- Top View:** Shows the 16 pins arranged in two rows of 8. Dimensions include DIM "X", DIM "Y", DIM "Z", and a 1.27mm pitch. Labels include PIN 1, PIN 2, and PIN 3.
- Side View:** Shows the profile of the connector with a 6.30mm height and a 1.14(2X) width. A label indicates "SCALE 2.000 PRODUCT WITH CAP AND POST OPTION".
- Section A-A:** A cross-sectional view showing the internal structure, including the 5.60mm height, 1.60mm width, and 5.50 ± 0.25mm spacing. A label indicates "50 0.41 TYP" and "0.3 A B C".
- Recommended PCB Layout:** Shows the layout of the 16 pins on a PCB. Dimensions include DIM "P", DIM "Z", and a 1.27mm pitch. Labels include PIN 1, PIN 2, and PIN 3. A note indicates "NPTH FOR THE PRODUCT WITH POST ONLY".

Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic, Halogen free
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

- -55°C to +125°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

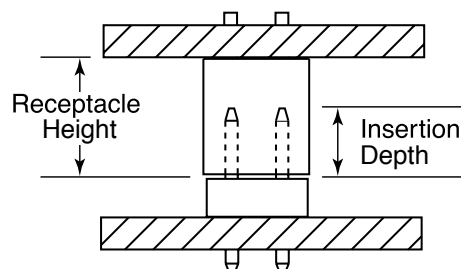
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

■ Minitek127® vertical TH headers	4
■ Minitek127® right angle TH headers	6
■ Minitek127® vertical SMT headers	8
■ Minitek127® right angle SMT headers	10
■ Minitek127® stacking TH/SMT headers	12
■ Minitek127® vertical TH shrouded headers	14
■ Minitek127® right angle TH shrouded headers	16
■ Minitek127® vertical SMT shrouded headers	18

TYPICAL APPLICATIONS



Minitek127® Vertical Through Hole Receptacles

PART NUMBERS

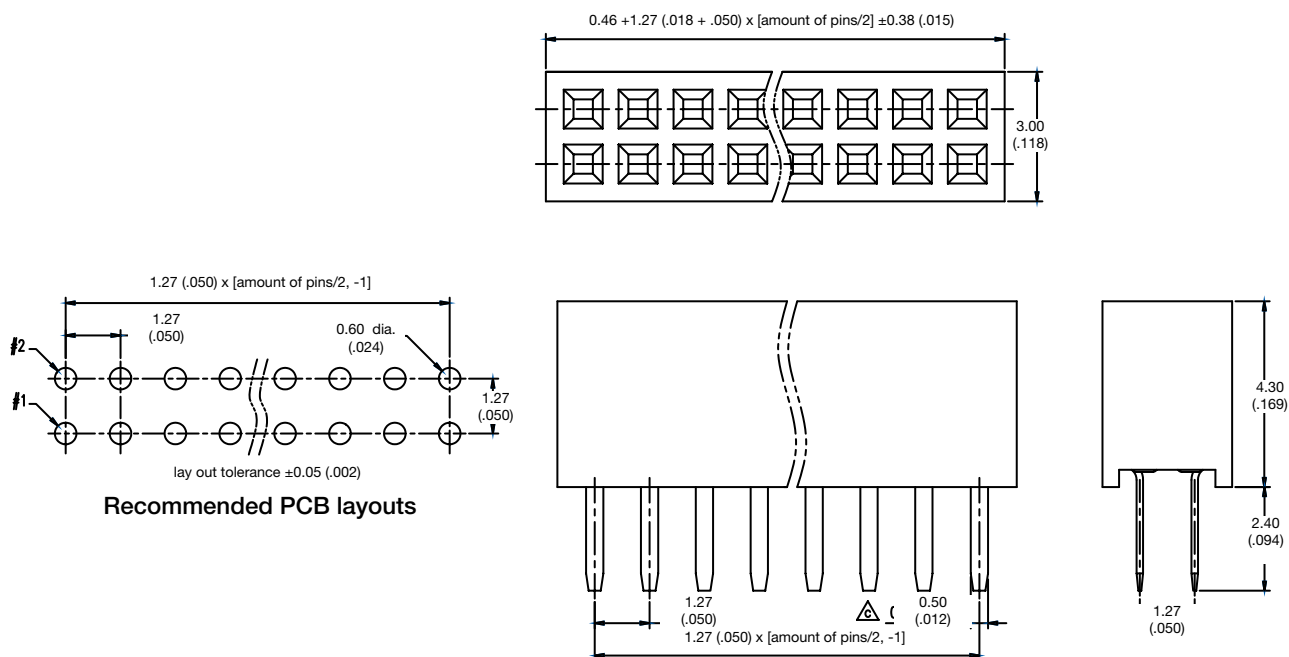


10, 12, 14, 80

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



PRODUCT



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic, Halogen free
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- Dielectric withstanding voltage: 500 V
- Voltage rating: 125 V

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

OPERATING TEMPERATURE RANGE

- -55°C to +125°C

PACKAGING

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

PROCESSING INFORMATION

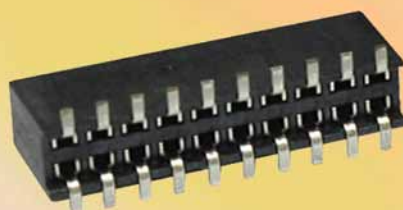
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a convection infra-red or vapor phase reflow oven

REFERENCE INFORMATION

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

RoHS INFORMATION

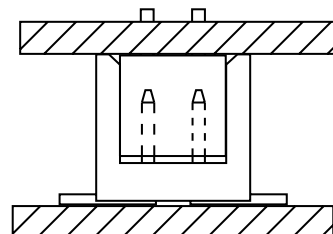
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

■ Minitek127® vertical TH headers	4
■ Minitek127® right angle TH headers	6
■ Minitek127® vertical SMT headers	8
■ Minitek127® right angle SMT headers	10
■ Minitek127® stacking TH/SMT headers	12
■ Minitek127® vertical TH shrouded headers	14
■ Minitek127® right angle TH shrouded headers	16
■ Minitek127® vertical SMT shrouded headers	18

TYPICAL APPLICATIONS



Minitek127® Vertical SMT Receptacles

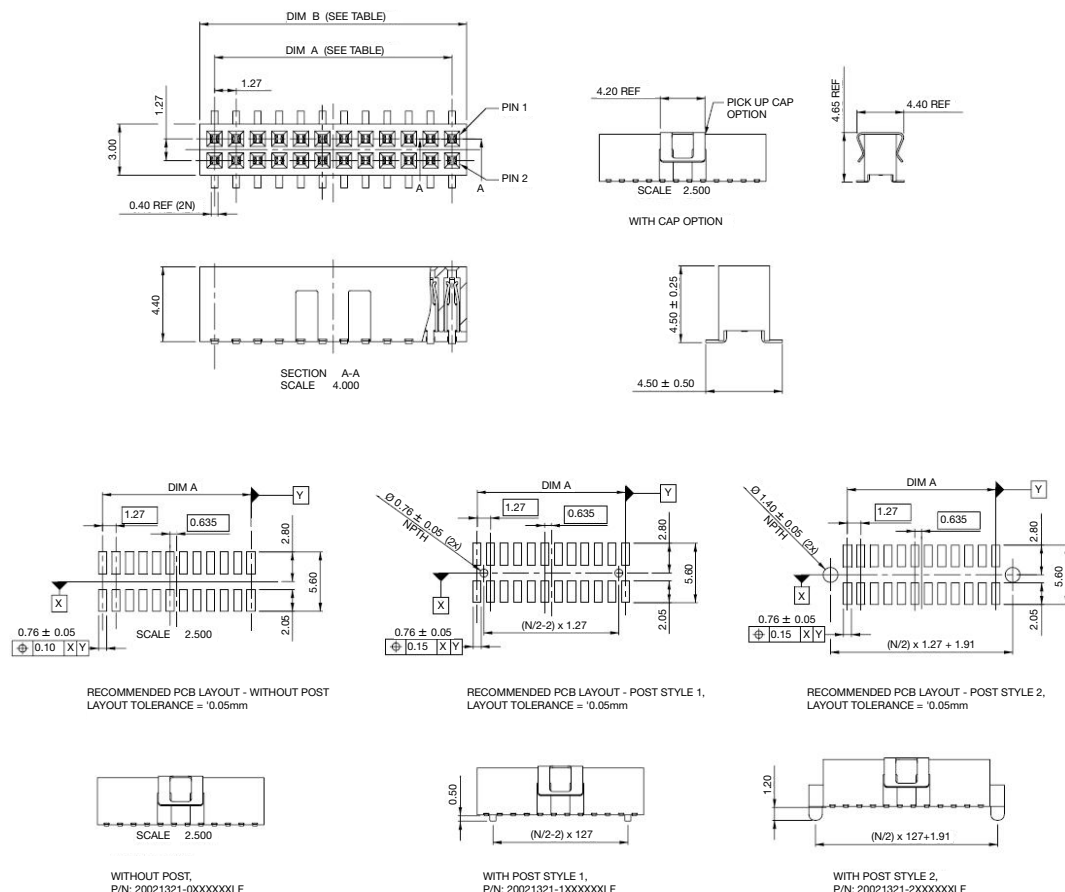
PART NUMBERS

20021321	Post Option	00	Positions	Packaging	Plating	LF
	0 = Without Post 1 = With Post style 1 2 = With Post style 2		6, 10, 12, 80		1 = Gold flash on contact 4 = 0.25µm (10µ") gold on contact 8 = 0.76µm (30µ") GXT on contact	

20021321	000	XX	C	4	LF
CORE RANGE XX = 06, 10, 12, 16, 20					

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

PRODUCT



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50μ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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

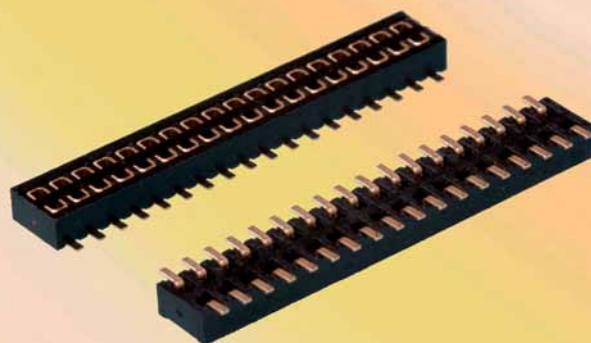
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a convection infra-red or vapor phase reflow oven

REFERENCE INFORMATION

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

RoHS INFORMATION

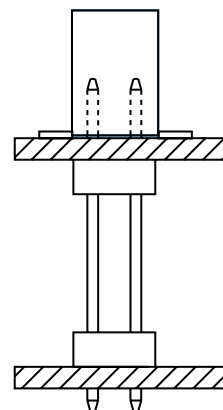
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

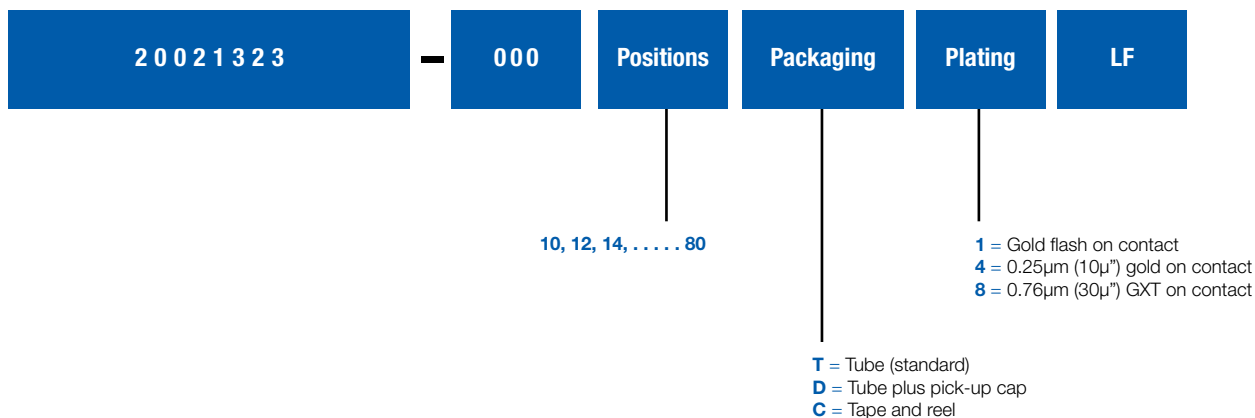
■ Minitek127® vertical TH headers	4/6
■ Minitek127® vertical SMT headers	8/10
■ Minitek127® stacking TH/SMT headers	12

TYPICAL APPLICATIONS

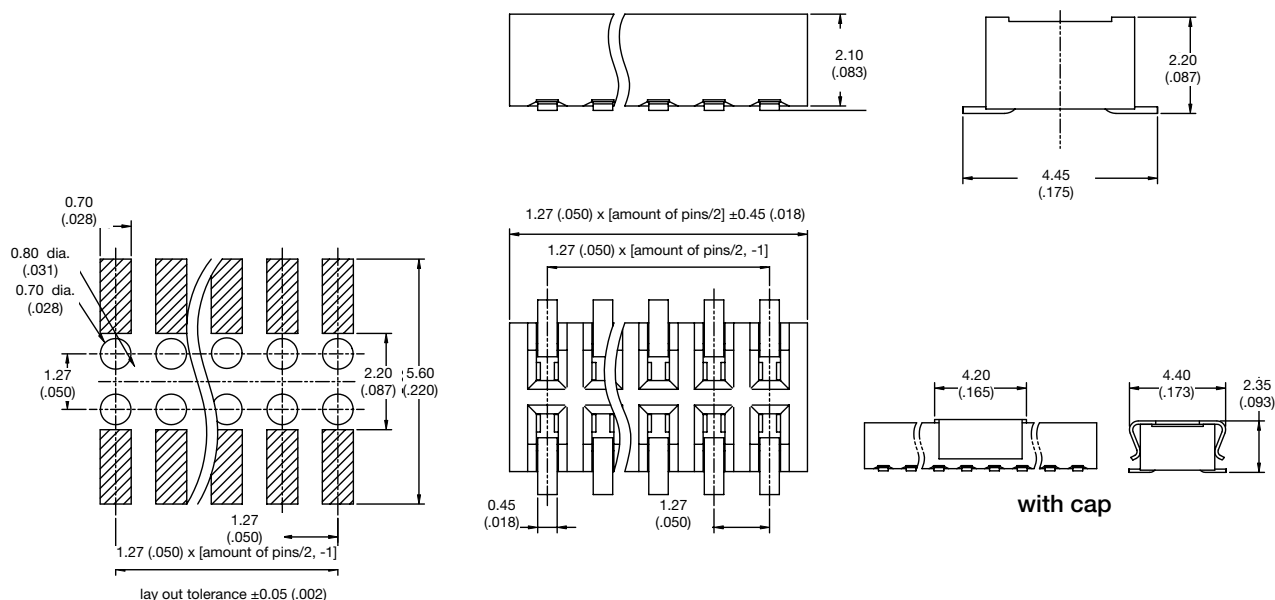


Minitek127® Vertical SMT Bottom Entry Receptacles

PART NUMBERS



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 or GXT over 50μ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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

REFERENCE INFORMATION

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

RoHS INFORMATION

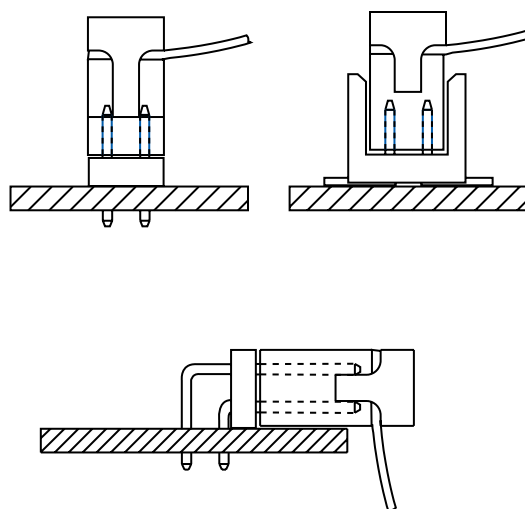
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

■ Minitek127® IDC TH headers	28
■ Minitek127® IDC SMT headers	30
■ Minitek127® IDC right angle TH headers	32
■ Minitek127® TH eject headers	34
■ Minitek127® right angle eject headers	36
■ Minitek127® SMT eject headers	38

TYPICAL APPLICATIONS



Minitek127® IDC Receptacles

PART NUMBERS

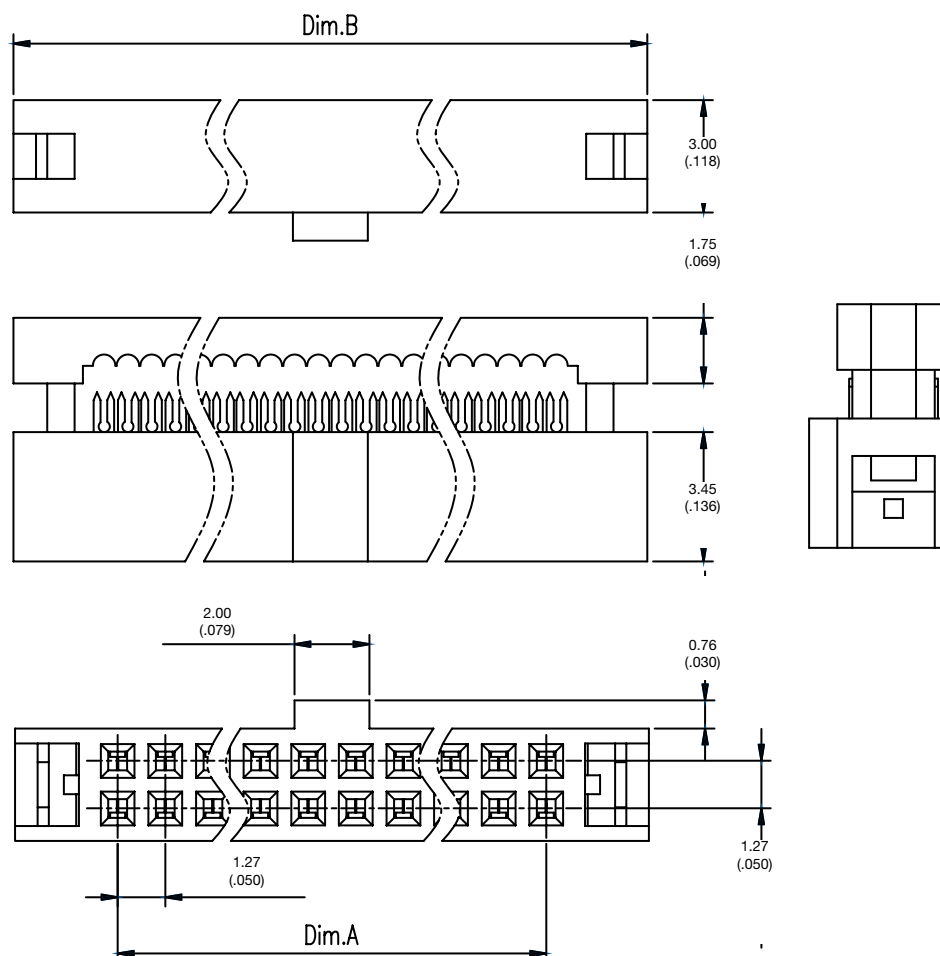


06, 08, 10, 12, 14, 16,
20, 24, 26, 30, 34, 40,
44, 50, 60, 64, 66, 68,
A0

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



PRODUCT



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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

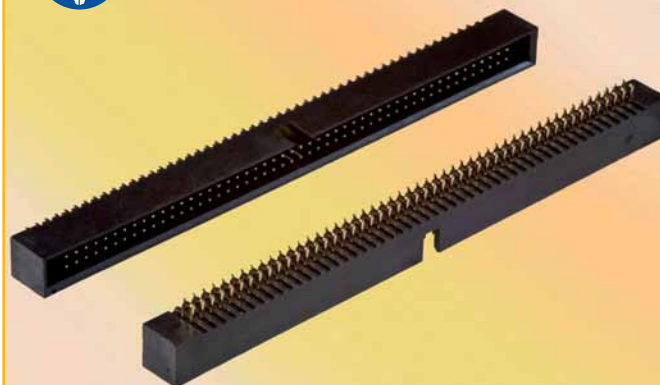
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

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

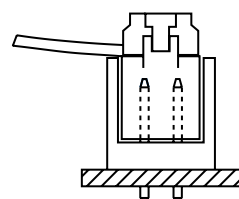
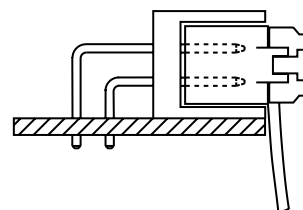


MATING DATA

- Minitek127® IDC receptacle

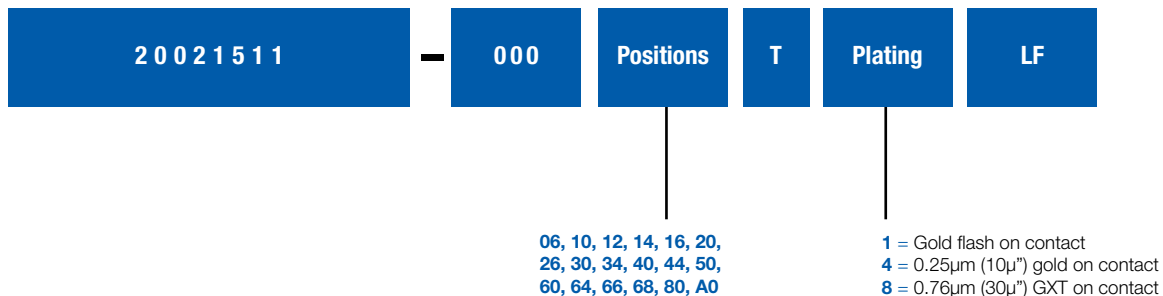
26

TYPICAL APPLICATIONS

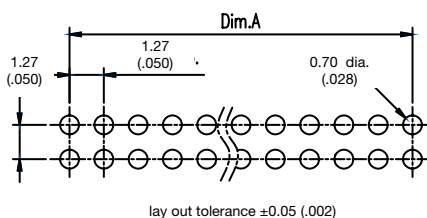
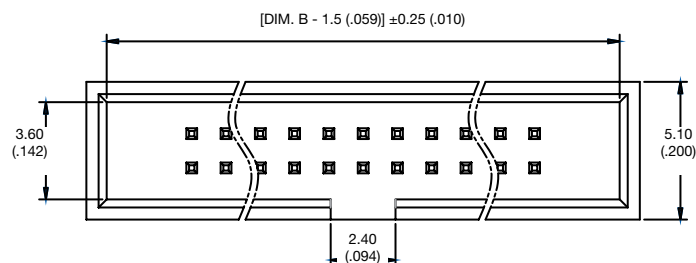


Minitek127® Vertical Through Hole IDC Headers

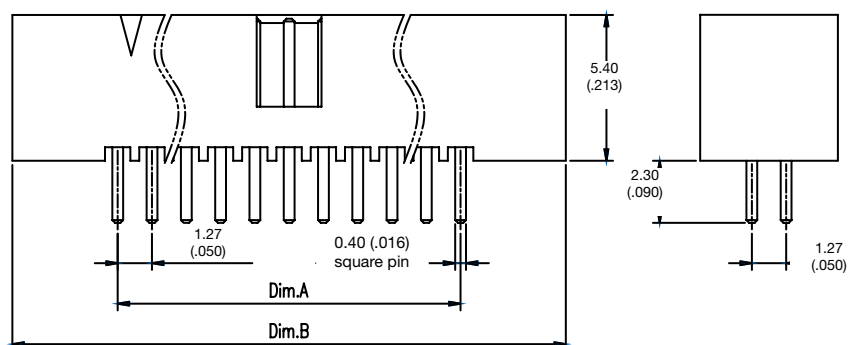
PART NUMBERS



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 or GXT over 50μ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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

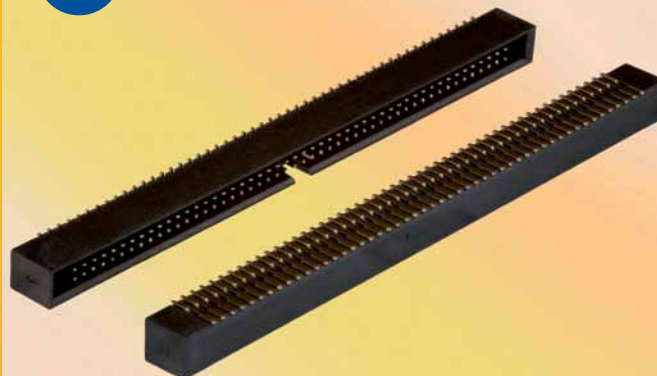
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a convection infra-red or vapor phase reflow oven

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

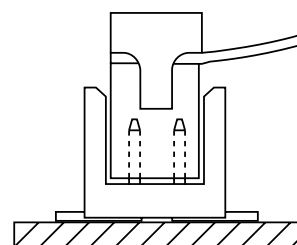


MATING DATA

- Minitek127® IDC receptacle

26

TYPICAL APPLICATIONS



Minitek127® Vertical SMT IDC Headers

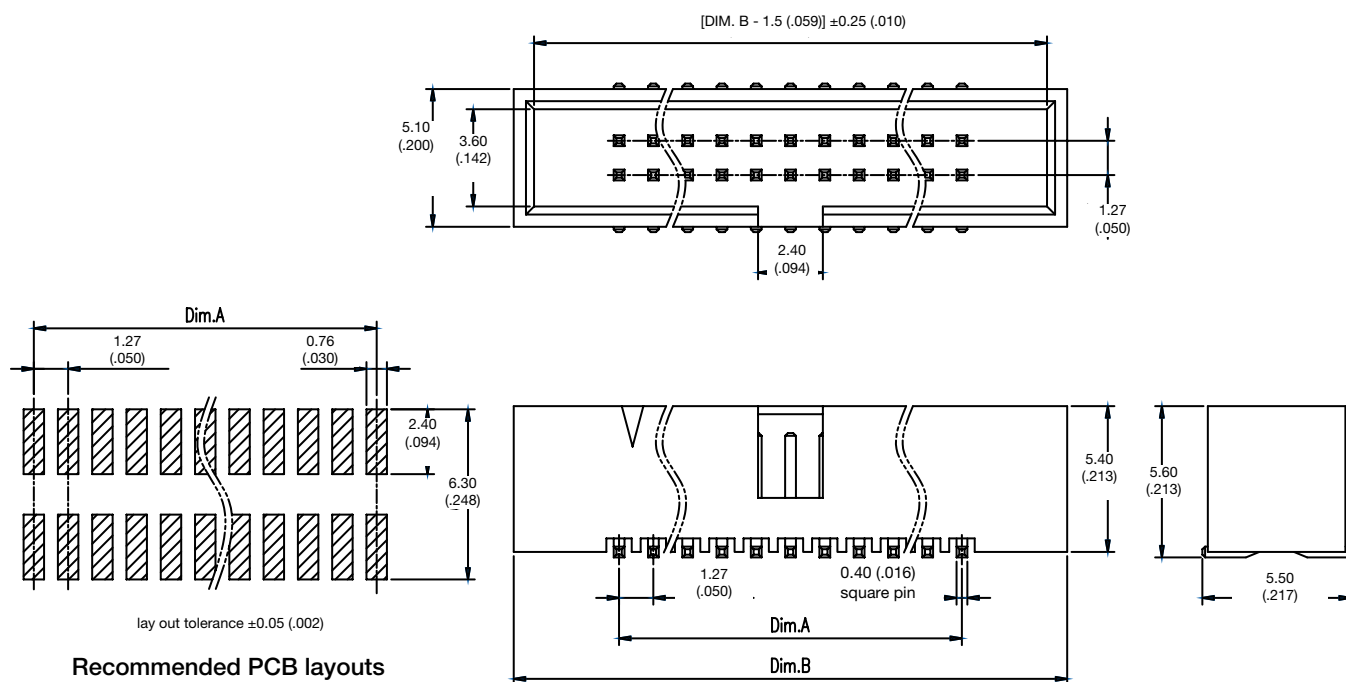
PART NUMBERS



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

1 = Gold flash on contact
4 = 0.25µm (10µ") gold on contact
8 = 0.76µm (30µ") GXT 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 or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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

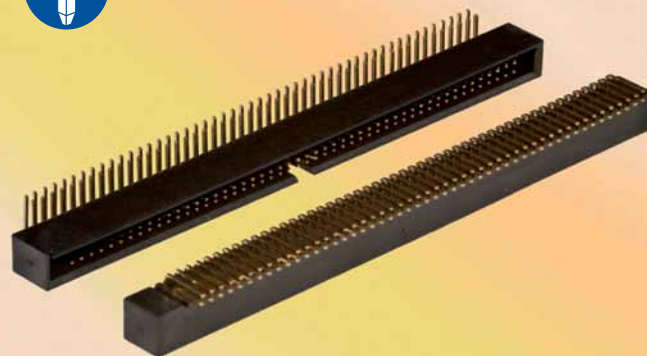
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

REFERENCE INFORMATION

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

RoHS INFORMATION

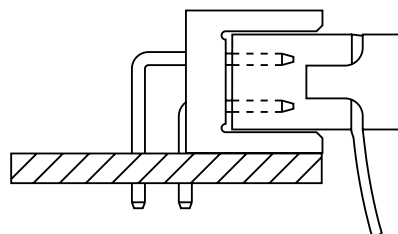
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

- Minitek127® IDC receptacle 26

TYPICAL APPLICATIONS



20021512	-	000	Positions	T	Plating	LF
----------	---	-----	-----------	---	---------	----

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

Figure 1: Recommended PCB layouts for the device. The figure includes three diagrams: a top view, a side view, and a cross-sectional view. The top view shows a rectangular package with dimensions 1.27 (.050) for the pin pitch, 0.70 dia. (.028) for the pin diameter, and a layout tolerance of ± 0.05 (.002). The side view shows a height of 5.40 (.213) and a pin width of 2.40 (.094). The cross-sectional view shows a pin height of 2.30 (.090), a pin width of 1.20 (.047), and a pin pitch of 1.27 (.050).

33

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50μ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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

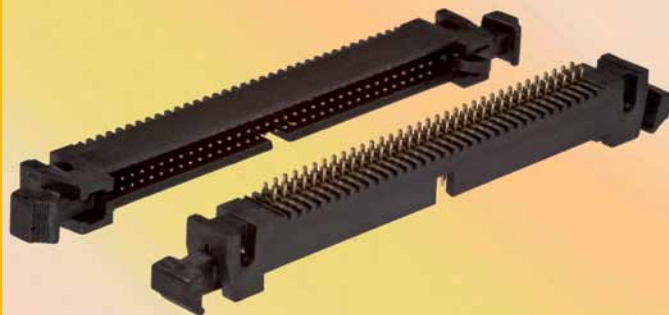
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

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

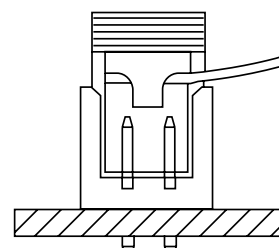


MATING DATA

- Minitek127® IDC receptacle

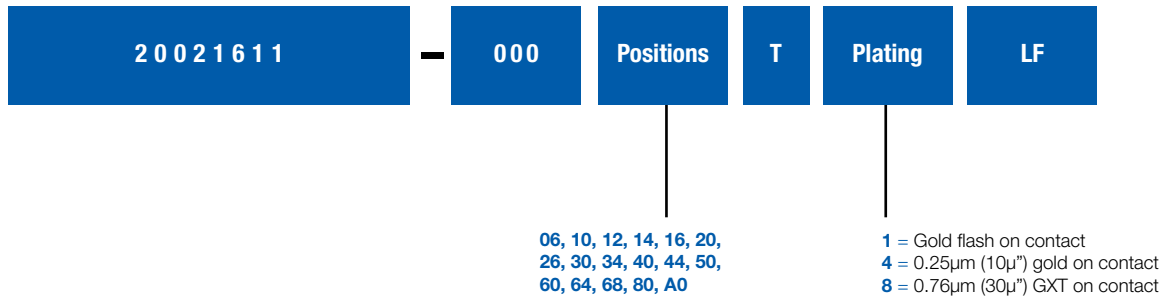
26

TYPICAL APPLICATIONS

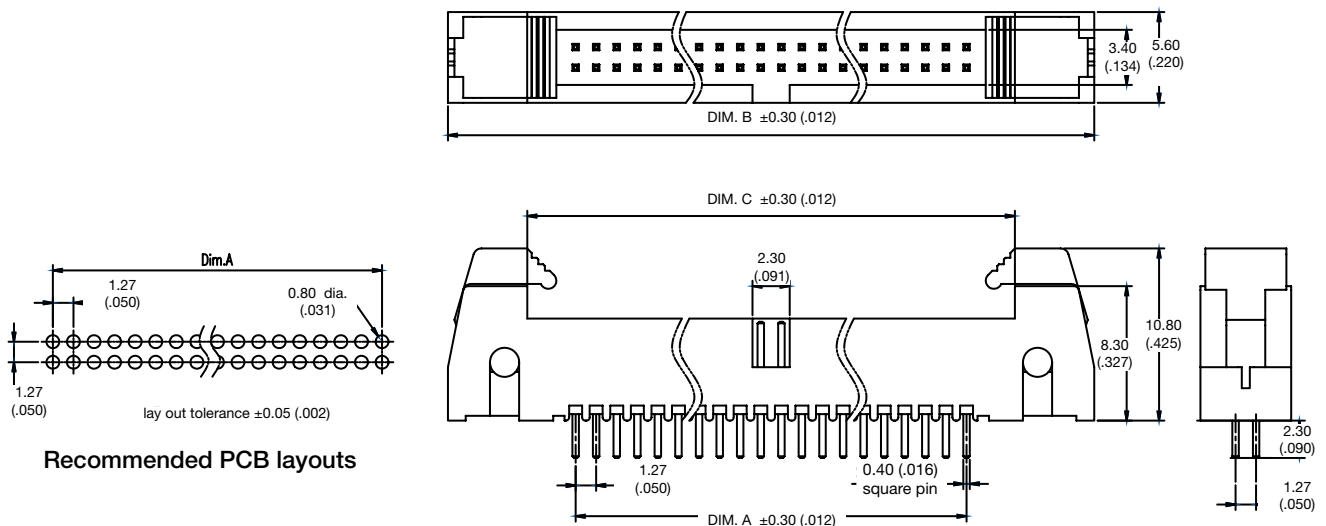


Minitek127® Vertical Through Hole Eject Headers

PART NUMBERS



PRODUCT



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50µ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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

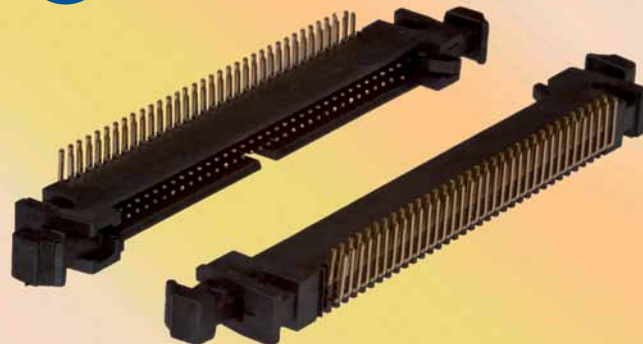
- The product will withstand exposure to 260°C peak temperature for 10 seconds in a wave solder application with a PCB

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

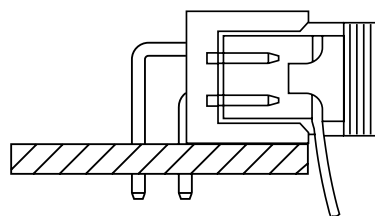


MATING DATA

- Minitek127® IDC receptacle

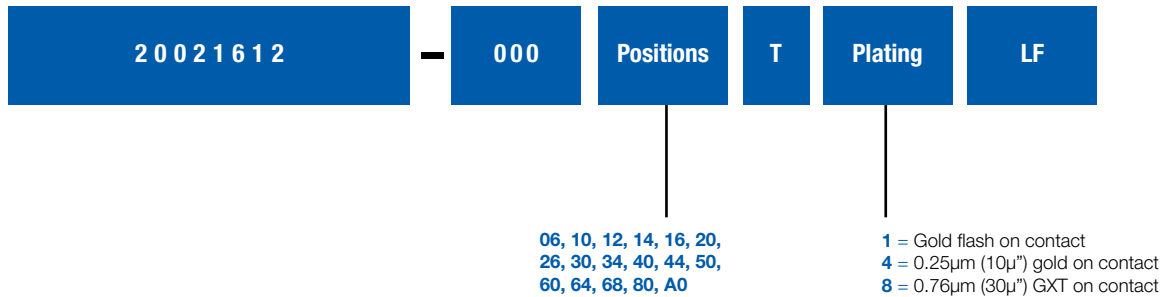
26

TYPICAL APPLICATIONS

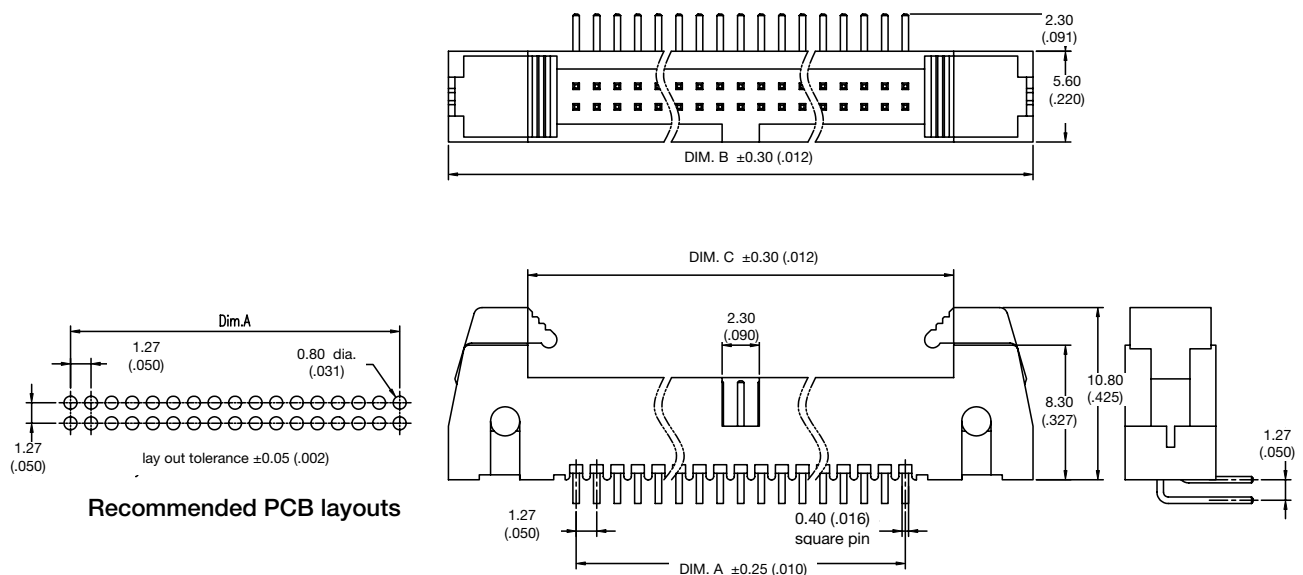


Minitek127® Right Angle Through Hole Eject Headers

PART NUMBERS



PRODUCT



Dimension : mm (inch)

TECHNICAL DATA

PHYSICAL

- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Copper Alloy
- Plating: Gold or GXT over 50μ" nickel

ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance: 1000 MΩ minimum
- Contact resistance: 30 mΩ maximum
- 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 convection infra-red or vapor phase reflow oven

REFERENCE INFORMATION

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

RoHS INFORMATION

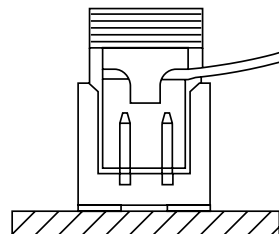
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



MATING DATA

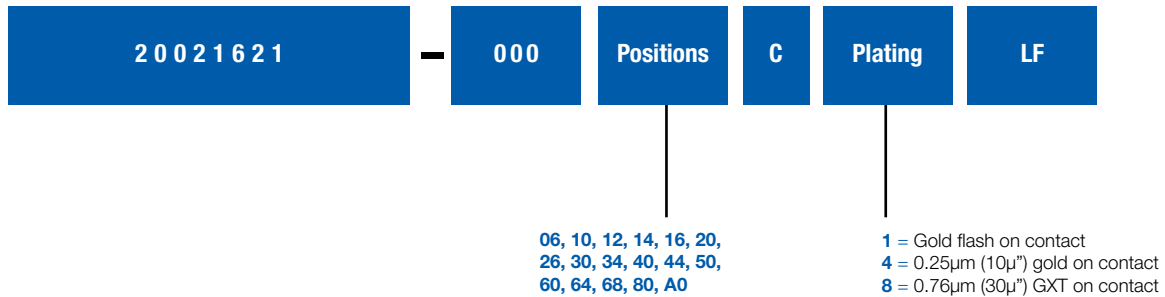
- Minitek127® IDC receptacle 26

TYPICAL APPLICATIONS

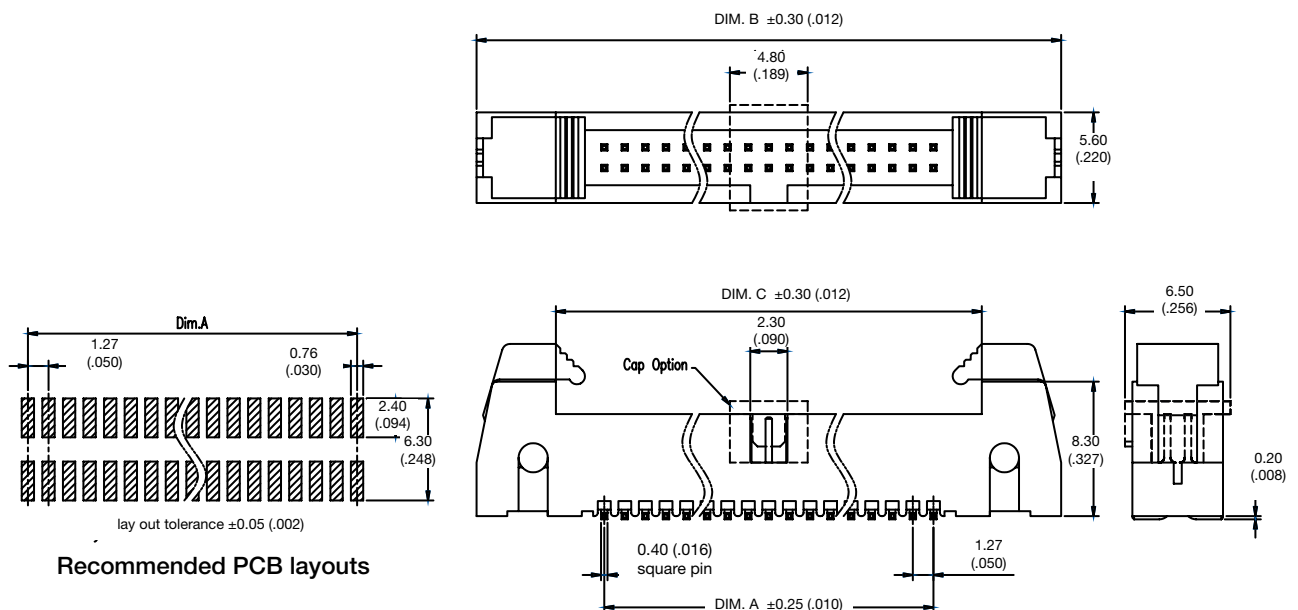


Minitek127® Vertical SMT Eject Headers

PART NUMBERS



PRODUCT



Dimension : mm (inch)

BASE PART NUMBER	PAGE
------------------	------

20021111	4 - 5
20021112	6 - 7
20021121	8 - 9
20021122	10 - 11
20021211	14 - 15
20021212	16 - 17
20021221	18 - 19
20021311	20 - 21
20021321	22 - 23
20021323	24 - 25
20021444	26 - 27
20021511	28 - 29
20021512	32 - 33
20021521	30 - 31
20021611	34 - 35
20021612	36 - 37
20021621	38 - 39
200218xx	12 - 13

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



A large rectangular area with a blue border, containing 25 horizontal green lines for writing notes.

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



A large rectangular area with a blue border, containing 25 horizontal green lines for writing notes.



www.fci.com
www.fciconnect.com

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692
Email amall@ameya360.com
QQ 800077892
Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333
Email mkt@ameya360.com