# **≣FCi Basics**

## Amphenol

## Minitek127<sup>®</sup> Board-to-Board Connector

### 1.27MM / BOARD-TO-BOARD CONNECTOR / STACKING HEIGHT / WIDE RANGE / SHROUDED

Minitek127<sup>®</sup> board-to-board series are 1.27mm pitch connector, position ranges from 4 to 100 positions. Family comprehensive offer includes straight and right angle, surface mount and through mount, shrouded and unshrouded headers in different plating variations (gold flash / 0.25μm gold / 0.76μm gold).

- Fine pitch of 1.27mm
- Wide range from 4 to 100 position
- Various plating
- Multiple orientation and mounting
- Shrouded housing



#### **FEATURES**

- Fine pitch of 1.27mm
- From 4 to 100 position
- Shrouded housing
- 3 plating versions (0.76μm Gold, 0.25μm Gold and Gold Flash)
- Both top and bottom entry product available
- Surface Mount and Through Hole type
- Tape and reel with pick up cap or tube packaging

#### **BENEFITS**

- Space saving
- Comprehensive range to satisfy all needs
- Higher reliability while working
- Allow for wide applications
- Meet specific needs
- Friendly to customized PCB layout
- Facilitate automated pick and place assembly

### **TECHNICAL INFORMATION**

#### **MATERIAL**

- Housing: Black Plastic (UL94V-0)
- Terminal: Copper Alloy
- Plating: Gold flash / 0.25µm Gold / 0.76µm Gold

#### **ELECTRICAL PERFORMANCE**

- Current Rating: 1A max. per contact
- Insulation Resistance: 1000MΩ min.
- Rated Voltage: 125VAC max.

#### **MECHANICAL PERFORMANCE**

- Mating and un-mating Force: 2.2N max. and 0.2N min./ contact
- Durability: 100 cycles

#### **ENVIRONMENTAL**

- Operating Temperature Range: -55°C to +125°C
- Mixed Flowing Gas Corrosion: IEC 60512-11-7, Class -IIA

#### **APPROVALS AND CERTIFICATIONS**

- UL
- PCI Express<sup>®</sup> (PCIe<sup>®</sup>) Gen 3

#### **SPECIFICATIONS**

Product Specification: GS-12-629

#### PACKAGING

- Tape and Reel
- Tube

#### **TARGET MARKETS/APPLICATIONS**



Industrial Robot

Switch



Server/Storage

### **PART NUMBER SELECTOR – HEADER**

	BASE NUMBER — X	2	x x	(	X	x	х		x	LF		
Description			Position					Plating				
20021111	Unshrouded Vertical TMT header	04 ~ A0 4~100 pos				1	Gold Flash					
20021112	Unshrouded Right angle TMT header							4	0.25	μm Au		
20021121	Unshrouded Vertical SMT header						8	0.76µm Au				
20021122	Unshrouded Right angle SMT header											
20021211	Shrouded Vertical TMT header	Package										
20021212	Shrouded Right angle TMT header	1			Т	Tube						
20021221	Shrouded Vertical SMT header	D Tube + CA			- CAP	Р						
10166143	Unshrouded Vertical SMT header - Low Profile				С	Tape a	Tape and Reel + CAP					



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### **PART NUMBER SELECTOR – RECEPTACLE**

	BASE NUMBER	_	X		x	(	xx	x		X	LF	
	Description				Position					Plating		
20021311	Vertical TMT receptacle				04 ~ A0 4 ~ 100 pos				1	Gold Flash		
20021321	Vertical SMT receptacle								4	0.25	μm Au	
20021323	Bottom entry SMT receptacle								8	0.76µm Au		
10165448	Vertical SMT receptacle - Low Profile						Pack	age				
						Т	Tube					
						D	Tube + CAP					
						С	C Tape and Reel + CAP					

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