

Minitek® 2.00mm Receptacle

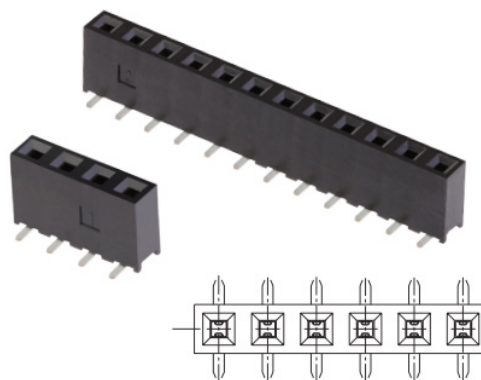
Single and double row

MODULAR AND COMPACT SOLUTION

The Minitek® product family includes single and double row receptacles for Board-to-Board and Wire-to-Board applications, in 2 to 25 positions per row and in vertical and horizontal configurations.

- Selective plating option saves costs
- Double solder tail on each pitch for SR VCC ensures no orientation constraint
- 2Amps performance with more than one contact powered
- Horizontal configuration is ideal for coplanar applications
- Modular system ensures interchangeable solution for flexible design

NEW



*Double solder tail on each pitch for SR VCC

TARGET MARKETS



FEATURES

- Double solder tail on each pitch for Single Row (SR) Vertical Card Connector (VCC)*
- 2Amps with more than one contact powered
- Selective plating
- Low profile version available (2.3mm height)
- Modular system is fully intermateable
- Smaller pitch of 2.00mm
- Dual beam contact design
- Perpendicular or coplanar application
- High raw material temperature range

BENEFITS

- Facilitates automatic placement with no orientation constraint
- Meet higher power Amps performance requirements
- Cost efficient
- Meets specific design requirements
- Interchangeable solution offers design flexibility
- 38% less board space compared with 2.54mm connectors
- Highly reliable electrical performances
- Vertical or horizontal mounting solution
- Withstands reflow soldering process

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, Black, UL94V-0
- Pin: Phosphor Bronze
- Plating:
 - 1= 0.76µm Gold/GXT® on contact area and 2µm min. matte Tin on tail
 - 2= 0.38µm Gold/GXT® on contact area and 2µm min. matte Tin on tail
 - 3= 0.20µm Gold/GXT® on contact area and 2µm min. matte Tin on tail
 - 9= 1.27µm Nickel min. under layer and 2µm matte Tin on tail

MECHANICAL PERFORMANCE

- Durability: 100 mating cycles

ELECTRICAL PERFORMANCE

- Dielectric Withstanding Voltage: 650V
- Insulation Resistance: 1000MΩ min.
- Current Rating: 2A (all contacts powered)

PACKAGING

- Tube
- Tape

APPROVALS & CERTIFICATION

- UL94 V-0 & CSA

SPECIFICATION

- Amphenol Product Specification: GS-12-1326

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

TARGET MARKETS/APPLICATIONS



Automotive



Input/Output Module
Server Drive
Programmable Logic Controller (PLC)

PART NUMBER SELECTOR – SINGLE ROW

XXXXXXXX	X	XX	X	XX	
BASE PART NUMBER	PLATING CODE	TOTAL POSITIONS	PACKAGING OPTION	LEAD-FREE	LF
Single Row	Vertical, SMT	10131935	Tube (standard packaging)		U
			Tape and reel for SMT & as available		A
			2 positions	02	14 positions 14
			3 positions	03	15 positions 15
			4 positions	04	16 positions 16
			5 positions	05	17 positions 17
			6 positions	06	18 positions 18
			7 positions	07	19 positions 19
			8 positions	08	20 positions 20
			9 positions	09	21 positions 21
Single Row	Vertical, THT	10131934	10 positions	10	22 positions 22
			11 positions	11	23 positions 23
			12 positions	12	24 positions 24
			13 positions	13	25 positions 25
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
Single Row	Horizontal, SMT	10131931	0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
Single Row	Horizontal, THT	10131930	0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2

PART NUMBER SELECTOR – DOUBLE ROW

XXXXXXXX	X	XX	X	XX	
BASE PART NUMBER	PLATING CODE	TOTAL POSITIONS	PACKAGING OPTION	LEAD-FREE	LF
Single Row	Vertical, SMT	10131937	Tube (standard packaging)		U
			Tape and reel for SMT & as available		A
			2 positions	02	
			Up to 50 positions	50	
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
Single Row	Vertical, THT	10131936	0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
Single Row	Horizontal, SMT	10131933	0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
Single Row	Horizontal, THT	10131932	0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2
			0.20µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		3
			1.27µm Nickel min. under layer; 2µm matte Tin on tail		9
			0.76µm Gold/GXT® on contact area; 2µm min. matte Tin on tail.		1
			0.38µm Gold/GXT® on contact area; 2µm min. matte Tin on tail		2

Mouser Electronics

Authorized Distributor

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<u>55508-010LF</u>	<u>55508-014LF</u>	<u>55508-016LF</u>	<u>55508-016TRLF</u>	<u>55508-018LF</u>	<u>55508-020LF</u>	<u>55508-022LF</u>	<u>55508-024LF</u>
<u>55508-026LF</u>	<u>55508-028LF</u>	<u>55508-030LF</u>	<u>55508-032LF</u>	<u>55508-034LF</u>	<u>55508-036LF</u>	<u>55508-038LF</u>	<u>55508-042LF</u>
<u>55508-044LF</u>	<u>55508-046LF</u>	<u>55508-048LF</u>	<u>55508-050LF</u>	<u>55508-104LF</u>	<u>55508-106LF</u>	<u>55508-108LF</u>	<u>55508-110LF</u>
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<u>55508-132LF</u>	<u>55508-134LF</u>	<u>55508-136LF</u>	<u>55508-138LF</u>	<u>55508-140LF</u>	<u>55508-142LF</u>	<u>55508-144LF</u>	<u>55508-146LF</u>
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<u>55510-016LF</u>	<u>55510-018LF</u>	<u>55510-020LF</u>	<u>55510-022LF</u>	<u>55510-024LF</u>	<u>55510-026LF</u>	<u>55510-028LF</u>	<u>55510-030LF</u>
<u>55510-032LF</u>	<u>55510-034LF</u>	<u>55510-036LF</u>	<u>55510-038LF</u>	<u>55510-040LF</u>	<u>55510-042LF</u>	<u>55510-044LF</u>	<u>55510-046LF</u>
<u>55510-048LF</u>	<u>55510-050LF</u>	<u>55510-104LF</u>	<u>55510-106LF</u>				