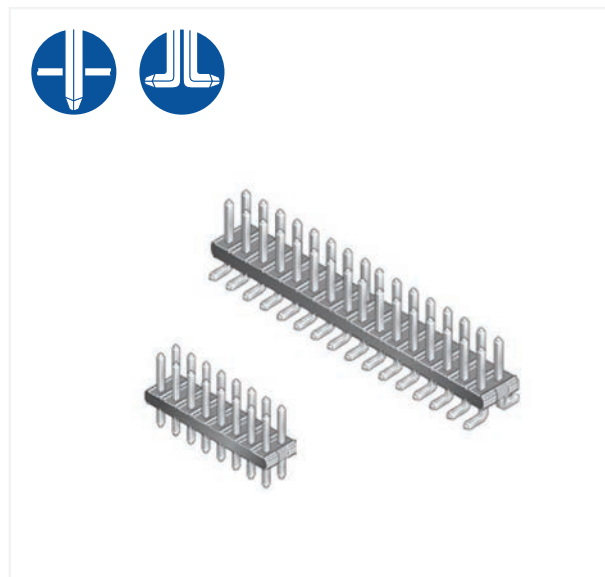


MINITEK® UNSHROUDED VERTICAL HEADERS





TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature, black thermoplastic
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 3A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance: 25mΩ max.
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL PERFORMANCE

- Operating temperature range: -55°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: 57102 or 57202
- Product specification: DPS-12-011 and GS-12-163
- Tape and reel packaging data: TA-884

APPROVALS AND CERTIFICATIONS

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

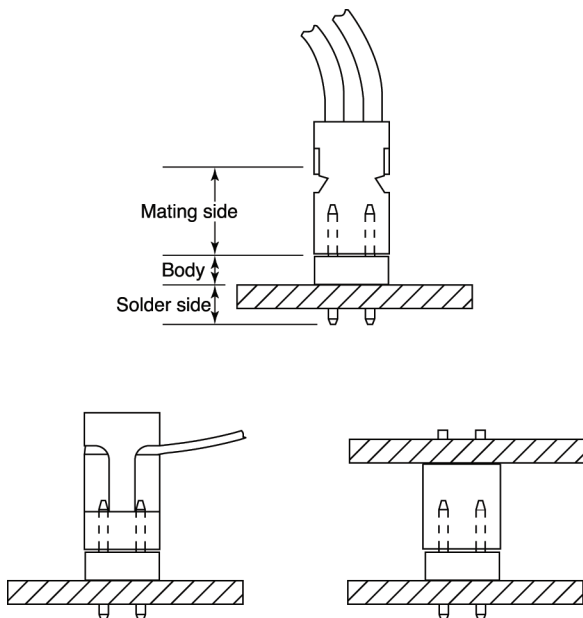
PACKAGING

- Standard: TMT in tubes (04 to 06 pos. packed in box)
- SMT in Tape-and-reel
- Optional: SMT in tubes

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes

TYPICAL APPLICATIONS



PART NUMBERS

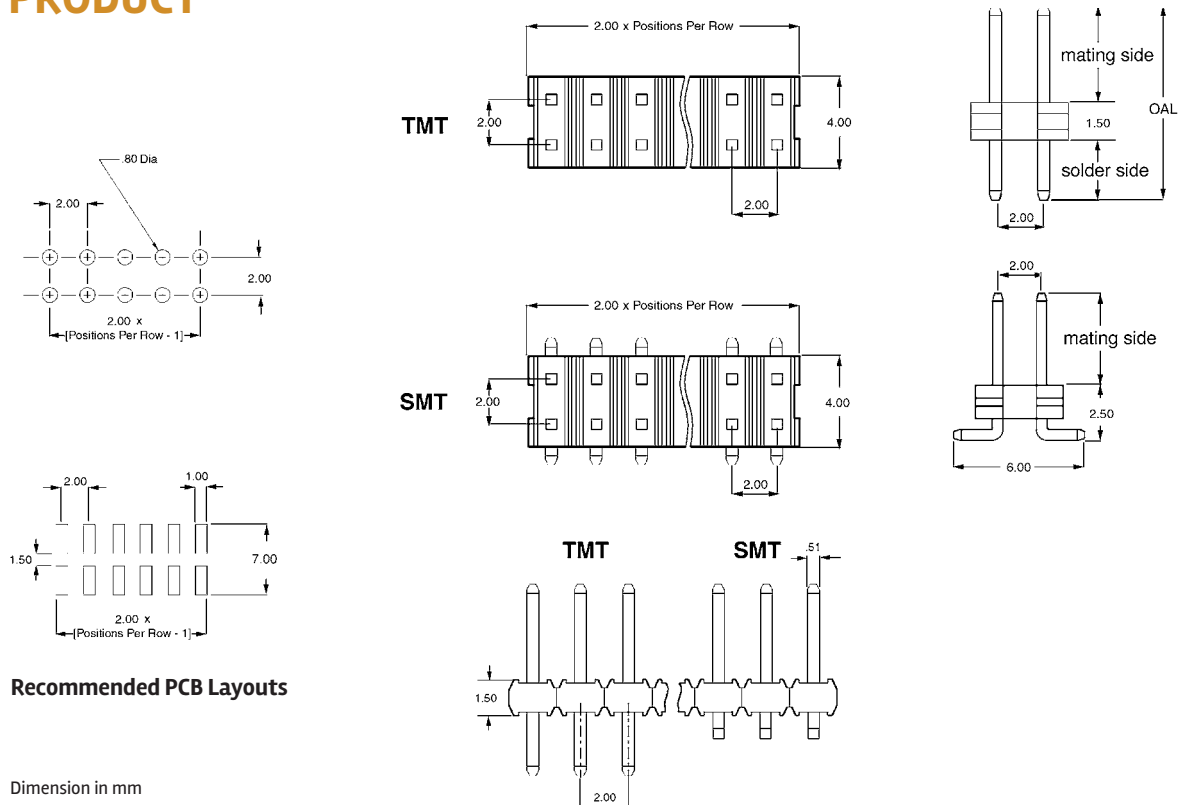
CORE RANGE

57202 — G 52 — XXALF

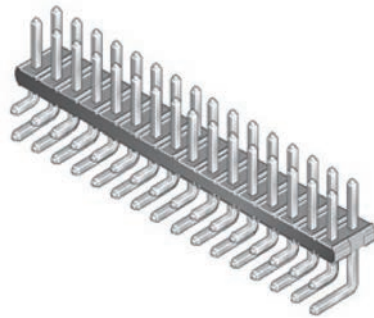
XX = 02, 03, 04, 05, 06, 08, 10

5	7	LEAD	0	2	PLATING	PIN STYLE	POSITIONS PER ROW	PACKAGING	LF																
<table><tr><td>Through Mount (TMT)</td><td>1</td></tr><tr><td>Surface Mount (SMT)</td><td>2</td></tr></table>					Through Mount (TMT)	1	Surface Mount (SMT)	2	<table><tr><td>0.76µm (30µin.), gold/GXT on mating area, 2-6µm (79-237µin.) tin on solder side</td><td>G</td></tr><tr><td>Gold flash on mating area, 2-6µm (79-237µin.) tin on solder side</td><td>F</td></tr></table>	0.76µm (30µin.), gold/GXT on mating area, 2-6µm (79-237µin.) tin on solder side	G	Gold flash on mating area, 2-6µm (79-237µin.) tin on solder side	F	<table><tr><td>Through Mount (TMT)</td><td>02 to 25</td></tr><tr><td>Surface Mount (SMT)</td><td>02 to 25</td></tr></table>	Through Mount (TMT)	02 to 25	Surface Mount (SMT)	02 to 25	<table><tr><td>Tube without cap (TMT)</td><td>U</td></tr><tr><td>Tape-and-reel with cap (SMT)</td><td>A</td></tr></table>	Tube without cap (TMT)	U	Tape-and-reel with cap (SMT)	A		
Through Mount (TMT)	1																								
Surface Mount (SMT)	2																								
0.76µm (30µin.), gold/GXT on mating area, 2-6µm (79-237µin.) tin on solder side	G																								
Gold flash on mating area, 2-6µm (79-237µin.) tin on solder side	F																								
Through Mount (TMT)	02 to 25																								
Surface Mount (SMT)	02 to 25																								
Tube without cap (TMT)	U																								
Tape-and-reel with cap (SMT)	A																								
					<table><tr><th colspan="4">Through Mount</th></tr><tr><th>Mating Side (mm)</th><th>Solder Side (mm)</th><th>OAL (mm)</th><th>Pin Style</th></tr><tr><td>4.00</td><td>2.50</td><td>8.00</td><td>06</td></tr><tr><td>4.00</td><td>3.00</td><td>8.50</td><td>08</td></tr></table>					Through Mount				Mating Side (mm)	Solder Side (mm)	OAL (mm)	Pin Style	4.00	2.50	8.00	06	4.00	3.00	8.50	08
Through Mount																									
Mating Side (mm)	Solder Side (mm)	OAL (mm)	Pin Style																						
4.00	2.50	8.00	06																						
4.00	3.00	8.50	08																						

PRODUCT



MINITEK® UNSHROUDED RIGHT ANGLE HEADERS



FEATURES & BENEFITS

- High temperature plastic
- Selective plating

TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature, black thermoplastic
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 3A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance: 25mΩ max.
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL

- Operating temperature range: -55°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: 98423
- Product specification: DPS-12-011 and GS-12-163

APPROVALS AND CERTIFICATIONS

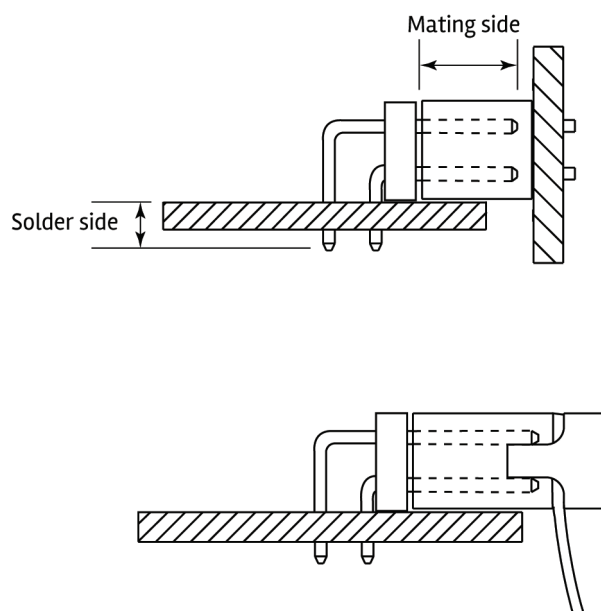
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

- Tubes (04 to 06 pos. packed in box)

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes



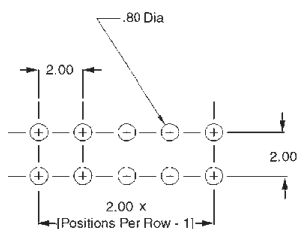
PART NUMBERS

9	8	4	2	3	—	PLATING	61	—	POSITIONS PER ROW	U	LF
---	---	---	---	---	---	---------	----	---	----------------------	---	----

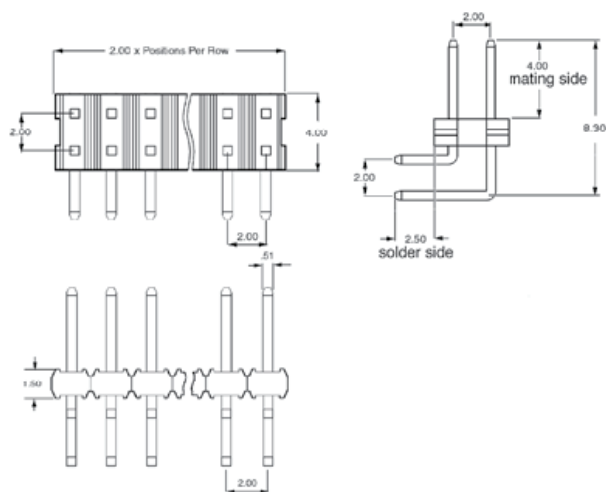
0.76µm (30µin.), gold/GXT on mating area, 2–6µm (79–237µin.) tin on solder side	G
Gold flash on mating area, 2–6µm (79–237µin.) tin on solder side	F

02 to 25

PRODUCT



Recommended PCB Layouts

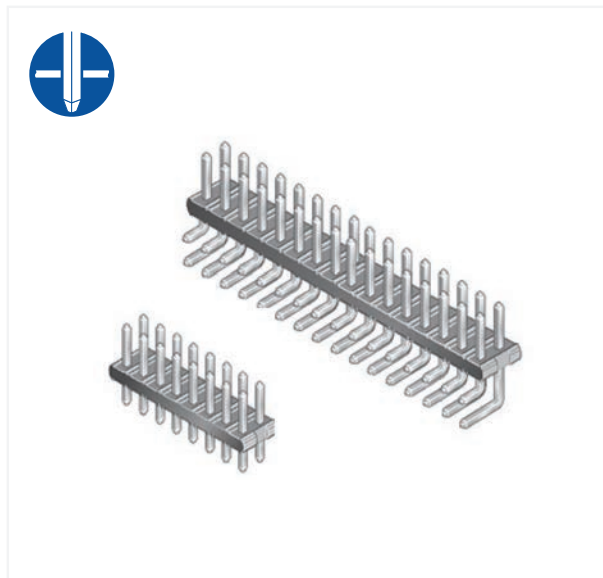


Dimension in mm

Disclaimer

Please note that the above information is subject to change without notice.

MINITEK® UNSHROUDED HEADERS, PIN-IN-PASTE





TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature, black thermoplastic
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 3A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min
- Contact resistance: 25Ωm max.
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL

- Operating temperature range: -55°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

SPECIFICATIONS

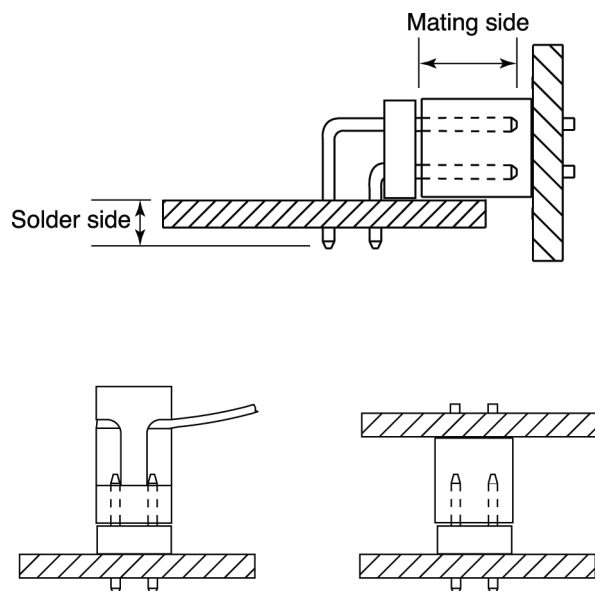
-  File no. E66906
-  File no. LR46923
- Product drawing: By 8-digit base part number
- Product specification: DPS-12-011 and GS-12-163
- Application specification: TA-895
- Reflow profile: TA-842

PACKAGING

- Tubes (04 to 06 pos. packed in box)
- Tape-on-reel with pick up cap

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes

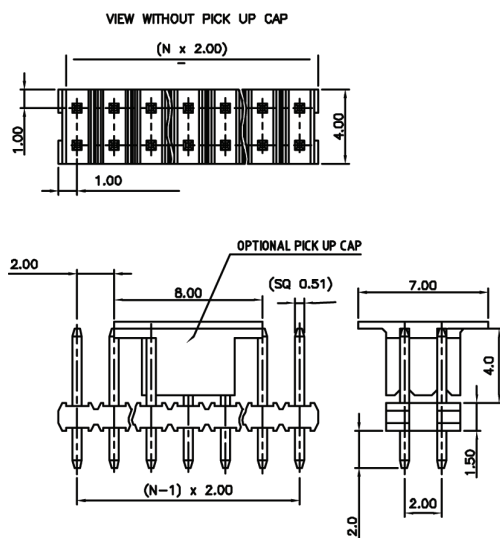


PART NUMBERS

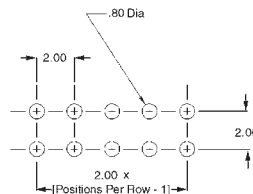
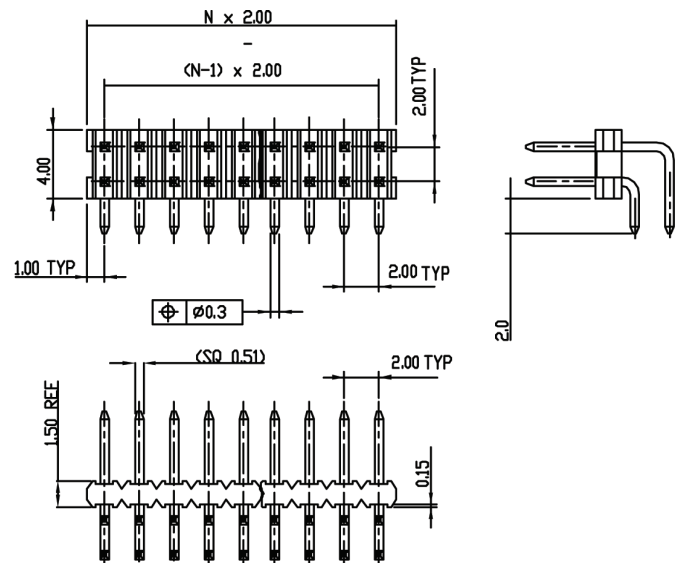
8-DIGIT BASE PART NUMBER		PLATING	PIN STYLE	POSITIONS PER ROW	PACKAGING	LF
Vertical	10075024			02 to 25		
Right angle	10072353					
0.76µm (30µin.), gold/GXT on mating area, 2-6µm (79-237µin.) tin on solder side			G			
Gold flash on mating area, 2-6µm (79-237µin.) tin on solder side			F			
Mating Side (mm)		Solder Side (mm)		Pin Style		
4.00		2.00		01		
Tube without cap from 04 to 25 pos.						U
Tape, availability on request						A

PRODUCT

10075024 Vertical



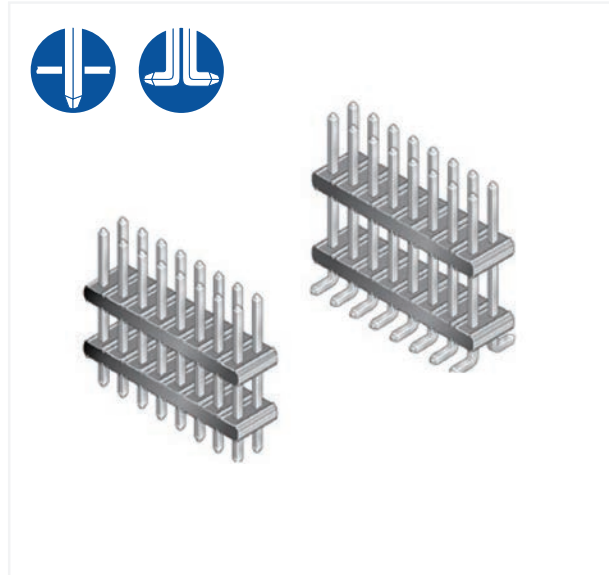
10072353 Right angle



Recommended PCB Layouts

Dimension in mm

MINITEK® UNSHROUDED STACKING HEADERS



FEATURES & BENEFITS

- Wide variety of stack heights in 0.13mm increments
- Custom sizes to meet your specific design requirements

TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature, black thermoplastic
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 2A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance: 25Ωm max.
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL

- Operating temperature range: -55°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: 59112, 59132, or 59202
- Product specification: DPS-12-011

APPROVALS AND CERTIFICATIONS

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

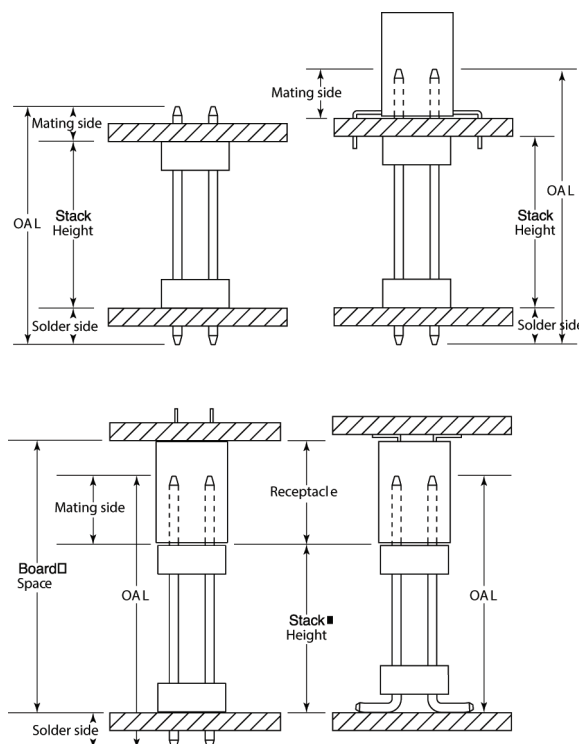
PACKAGING

- Standard: In bags

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes

TYPICAL APPLICATIONS

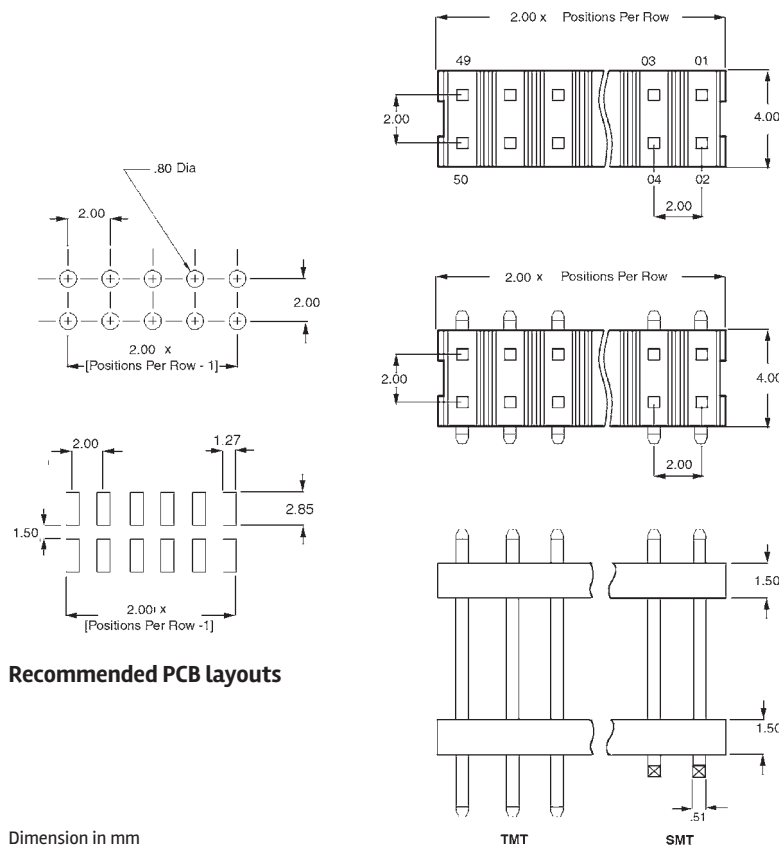


PART NUMBERS

Compile your own part number using custom dimensions (Please allow for initial setup on our system)

5	9	LEAD	SOLDER SIDE OPTION	2	—	PLATING	PIN STYLE	POSITIONS PER ROW	—	STACK HEIGHT	LF	
		Through Mount (TMT)	1			0.76µm (30µin.) gold on mating side, tin on solder side	T	Overall Length (OAL)				
		Surface Mount (SMT)	2					(TMT) mm	(SMT) mm			
2.50	1							8.20	6.53	22	TMT 02 to 25	
3.00	3							9.55	7.87	24	SMT 02 to 25	
SMT	0							10.19	8.51	26	XXX = mm Specify mm (e.g., 037 = 03.7mm) in 0.1mm increments	
								11.79	10.11	28		
								13.54	11.86	30		
								14.10	12.42	32		
								15.60	13.92	34		
								17.09	15.42	36		
								19.08	17.40	38		
								21.08	19.41	40		

PRODUCT

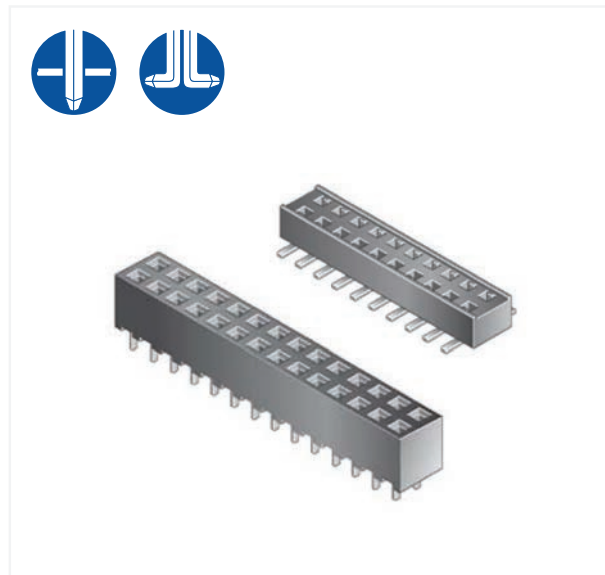


Recommended PCB layouts

Dimension in mm

The board spacing
is the stack height of this header,
plus the height of the receptacle
(see application drawings on
opposite page)

MINITEK® VERTICAL RECEPTACLES



FEATURES & BENEFITS

- Two housing heights: 2.30mm, 4.50mm
- Dual-beam contact design for highly reliable electrical performances

TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature, black thermoplastic
- Flammability rating: UL94V-0
- Contact: Phosphor-bronze
 - Beryllium-copper-63453
- Plating: Gold over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 2A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance:
 - 20mΩ
 - 25mΩ – 63453
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL

- Operating temperature range: -55°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability):
 - 25
 - 100 – 63453
- Contact retention to housing:
 - 2.20 N (227gf) min.
 - 4.90 N (500gf) min. – 63453
- Insertion force per contact:
 - 1.80 N (184gf) max.
 - 1.95 N (200gf) – 63453
- Withdrawal force per contact:
 - 0.20 N (20gf) min.

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification:
 - GS-12-008
 - DPS-12-011 – for 63453

APPROVALS AND CERTIFICATIONS

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

PACKAGING

- Standard:
 - TMT in tubes
 - SMT in tape-and-reel
- Optional: Tubes (SMT)

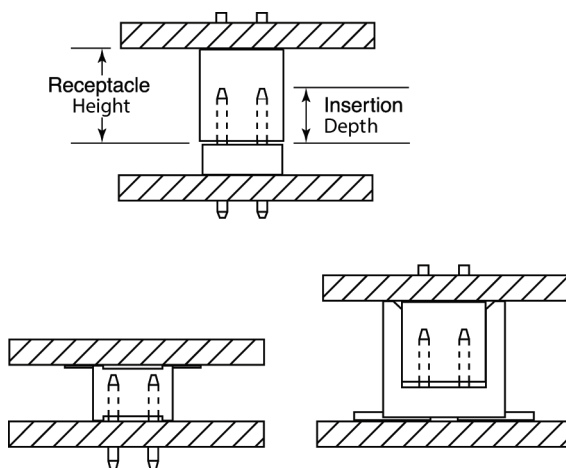
PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes

INSERTION DEPTH

- 4.50mm height: 3.00mm min. to 4.30mm max. [provides .381mm wipe]
- 2.30mm height – top entry: 1.30mm min. to 2.20mm max. [provides .381mm wipe]
- 2.30mm height – bottom entry: 1.40mm min. to 2.20mm max. [provides .381mm wipe] plus board thickness

TYPICAL APPLICATIONS



PART NUMBERS

CORE RANGE

55510 — 1XXTRLF

XX = 04, 06, 08, 10, 12, 16, 20

5-DIGIT BASE
PART NUMBER

1

TOTAL POSITIONS

PACKAGING

LF

Through Mount (TMT)

Part Number

Height

Entry

4.50

Top

63453

Surface Mount (SMT)

4.50

Top

55510

2.30

Top

55508

2.30

Bottom

91596

0.76μm (30μin.),
gold on mating area,
2-6μm (79-237μin.)
tin on solder side

1

Top Entry

04 to 50

Bottom Entry

04 to 30

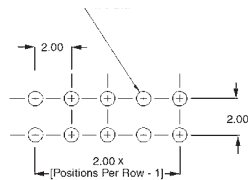
Tubes (TMT)

- (dash)

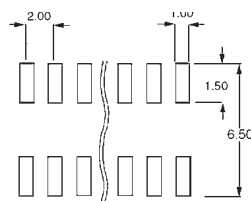
Tape-and-reel(SMT)

TR

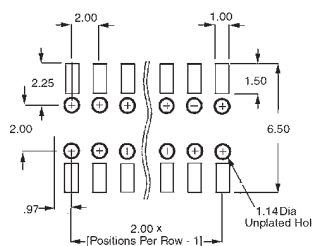
PRODUCT



Top Entry

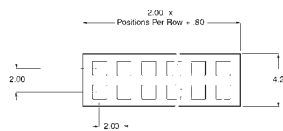


Bottom Entry

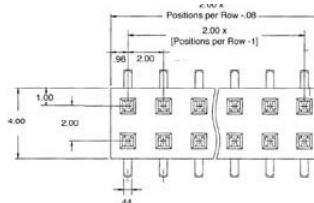
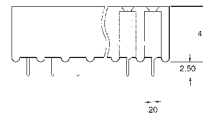


Recommended PCB layouts

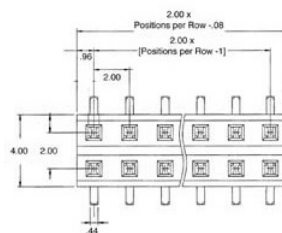
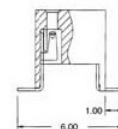
Dimension in mm



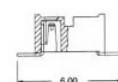
P/N 63453



P/N 55510



P/N 55508

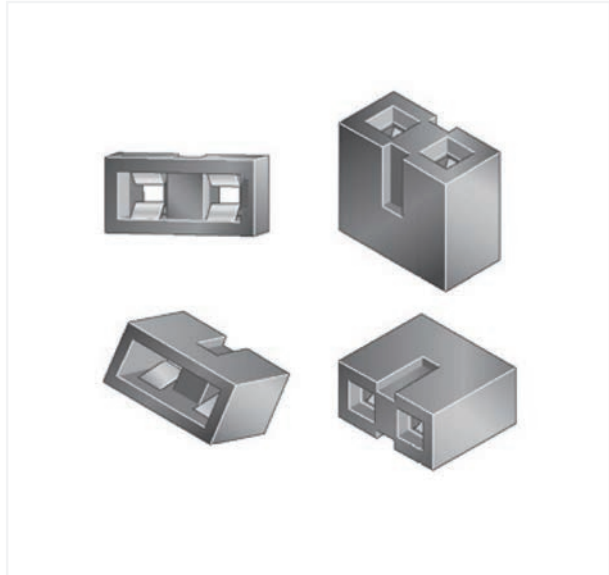


For more information,
please contact: Communications@fci.com
or visit us at www.fci.com

Disclaimer

Please note that the above information is subject to change without notice.

MINITEK® SHUNTS



FEATURES & BENEFITS

- Early entry, dual-beam contacts provide long wiping action for reliable electrical contact

TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature, black thermoplastic
- Flammability rating: UL94V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 1A continuous
- Insulation resistance: $1 \times 10^5 \text{ M}\Omega$ min.
- Contact resistance: 25mΩ
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

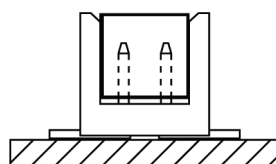
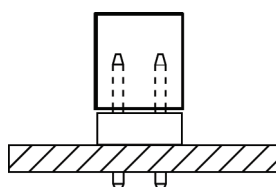
ENVIRONMENTAL

- Operating temperature range: -55°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 50
- Insertion force per contact: 6.41 N (650gf) max.
- Withdrawal force per contact: 0.49 N (50gf) min.

TYPICAL APPLICATIONS



SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: DPS-12-012

APPROVALS AND CERTIFICATIONS

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

PACKAGING

- Bags

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes

INSERTION DEPTH

- 2.24mm min. [provides .381mm wipe]



PART NUMBERS

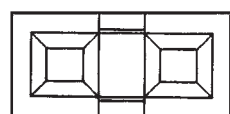
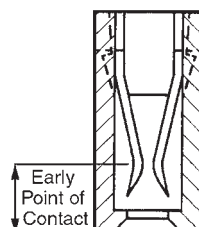
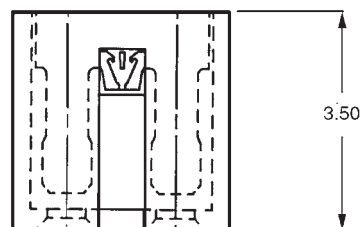
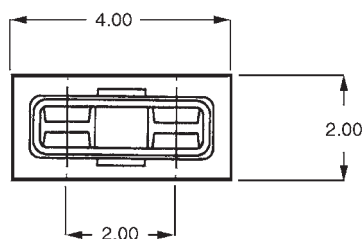
CORE RANGE

86730 — 101LF

8 6 7 3 0 — PLATING 0 1 LF

0.76µm (30µin.) gold on mating area, 2-6µm (79-237µin.) tin on solder side	1
Gold flash	0

PRODUCTS



Dimension in mm

MINITEK® SHROUDED VERTICAL HEADERS



FEATURES & BENEFITS

- 4-wall design prevents mis-mating
- Selective plating
- Co-planarity 0.1 (SMT)



TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature, cream-coloured thermoplastic
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 2A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance: 25mΩ max.
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL

- Operating temperature range: -40°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: 98414 or 98424
- Product specification: DPS-12-011 and GS-12-163
- Tape and reel packaging data: TA-884

APPROVALS AND CERTIFICATIONS

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

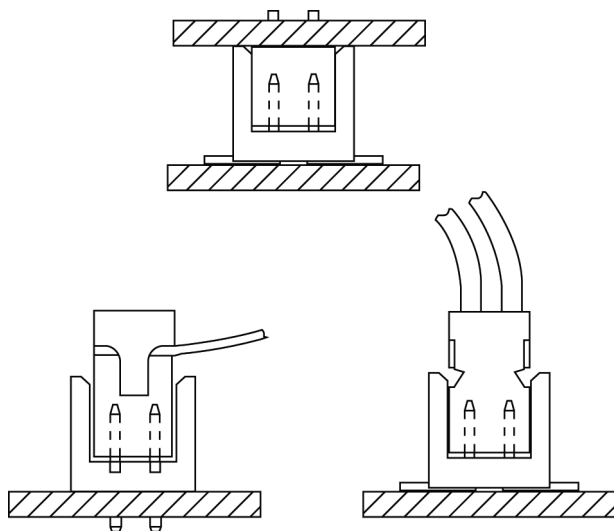
PACKAGING

- Standard:
 - TMT in tubes (04 to 06 pos. packed in box)
 - SMT in tape-and-reel
- Optional: SMT in tubes (04 and 06 in box)

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes

TYPICAL APPLICATIONS



PART NUMBERS

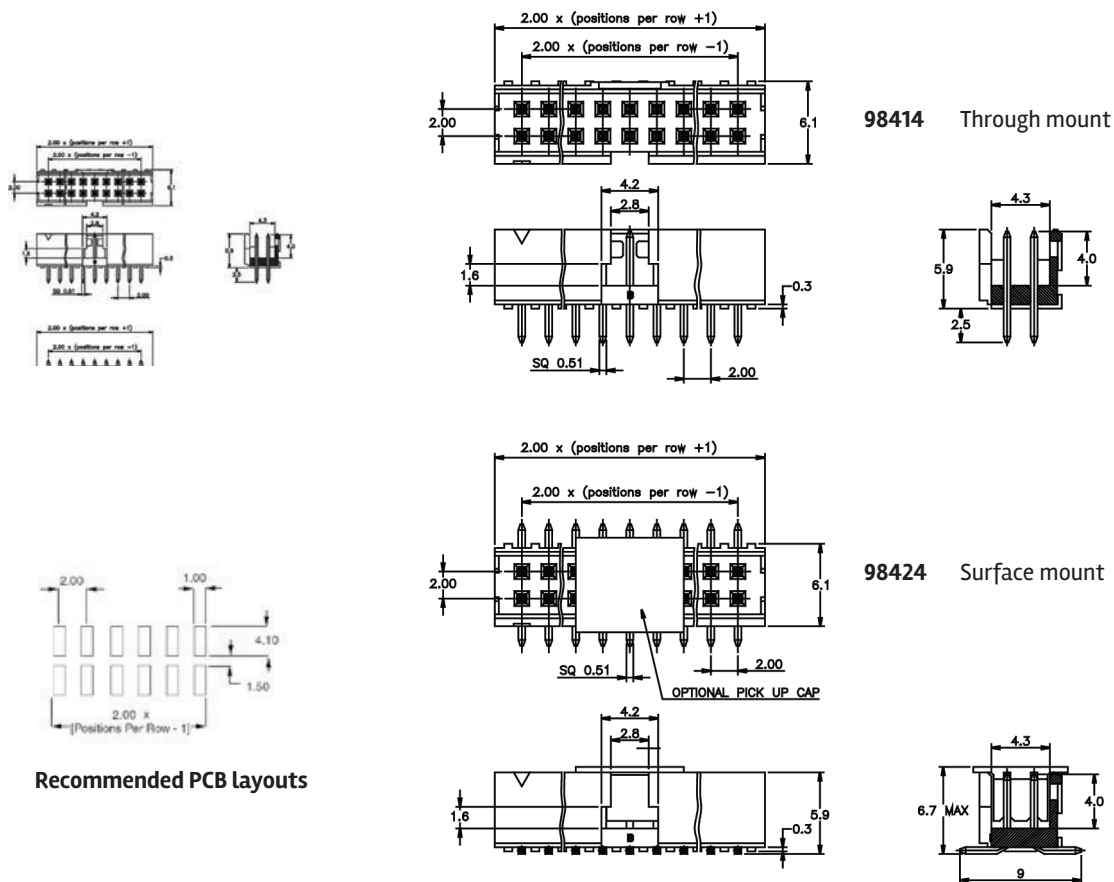
CORE RANGE

98424 — G 52 — XX ALF

XX = 04, 06, 08, 10, 12, 16, 20

5-DIGIT BASE PART NUMBER	PLATING	PIN STYLE	TOTAL POSITIONS	PACKAGING	LF		
Through mount, double row	98414		04 to 50	Tube (TMT)	U		
Surface mount, double row	98424			Tape-and-reel (SMT)	A		
0.76µm (30µin.), gold/GXT on mating area, 2-6µm (79-237µin.) tin on solder side	G						
Gold flash on mating area, 2-6µm (79-237µin.) tin on solder side	F						
			Surface Mount	Through Mount			
			Mating Side (mm)	Pin Style	Mating Side (mm)	Solder Side (mm)	Pin Style
			4.00	52	4.00	2.50	06

PRODUCT



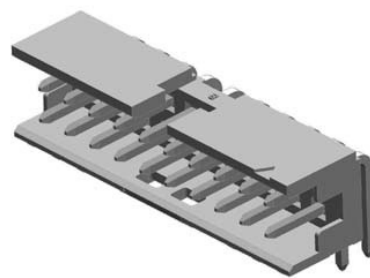
Dimension in mm

For more information,
please contact: Communications@fci.com
or visit us at www.fci.com

Disclaimer

Please note that the above information is subject to change without notice.

MINITEK® SHROUDED RIGHT ANGLE HEADERS



FEATURES & BENEFITS

- 4-wall design prevents mis-mating
- Selective plating

TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature, cream-coloured thermoplastic
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 2A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance: 25mΩ max.
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL

- Operating temperature range: -40°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: 98464
- Product specification: DPS-12-011 and GS-12-163

APPROVALS AND CERTIFICATIONS

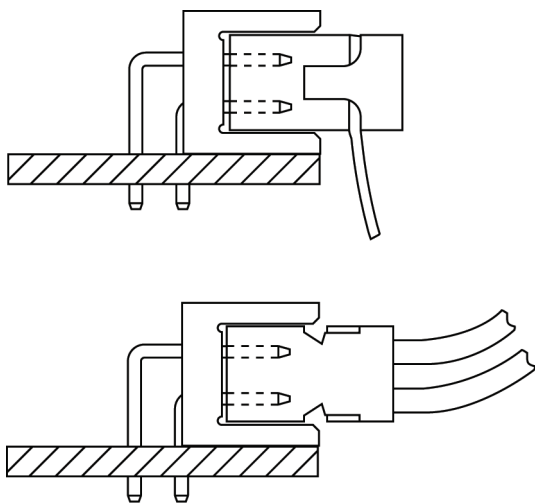
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

- Standard: Tubes (04 pos. packed in box)

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes





MINITEK® SHROUDED RIGHT ANGLE HEADERS

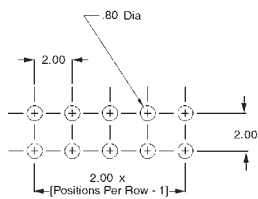
PART NUMBERS

9	8	4	6	4	—	PLATING	61	—	TOTAL POSITION	U	LF
---	---	---	---	---	---	---------	----	---	-------------------	---	----

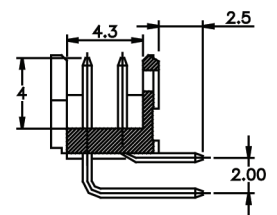
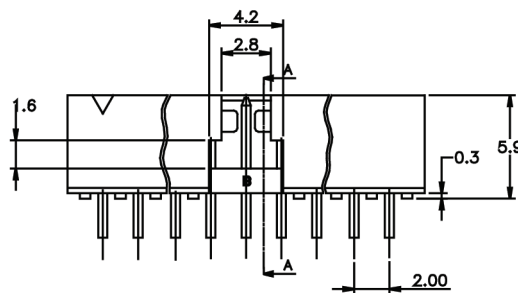
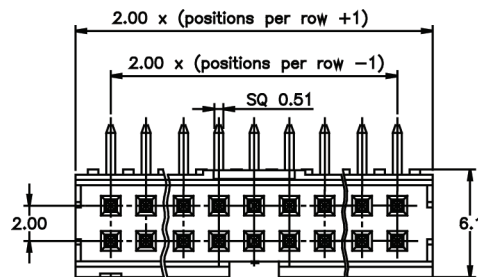
0.76µm (30µin.) gold/GXT on mating area, 2-6µm (79-237µin.) tin on solder side	G
Gold flash on mating area, 2-6µm (79-237µin.) tin on solder side	F

04 to 50 (Double row)

PRODUCTS



Recommended PCB layouts



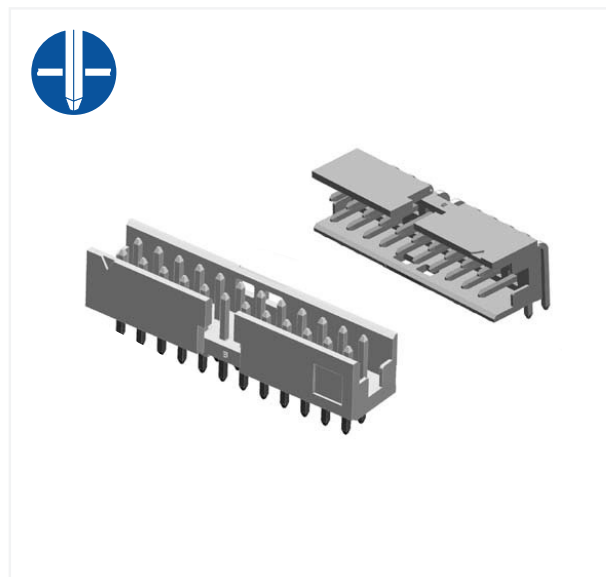
Dimension in mm

For more information,
please contact: Communications@fci.com
or visit us at www.fci.com

Disclaimer

Please note that the above information is subject to change without notice.

MINITEK® SHROUDED HEADERS, PIN-IN-PASTE





TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature, black thermoplastic
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 3A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance: 25mΩ max.
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL

- Operating temperature range: -55°C to +125°C

MECHANICAL PERFORMANCE

- Latching retention force: 30 N min.

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: 8-digit part number
- Product specification: DPS-12-011 and GS-12-163
- Application specification: TA-895
- Reflow prpfile: TA-842

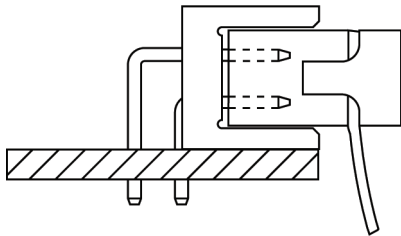
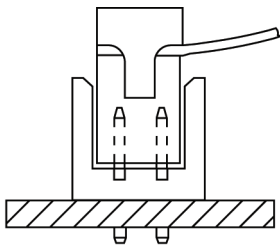
PACKAGING

- Tubes (04 pos. packed in box)
- Tape-on-reel with pick up cap

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes

TYPICAL APPLICATIONS



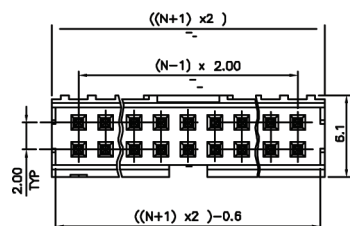
PART NUMBERS

8-DIGIT BASE PART NUMBER		PLATING		PIN STYLE		TOTAL POSITIONS		PACKAGING		LF	
Vertical	10075025	0.76µm (30µin.), gold/GXT on mating area, 2-6µm (79-237µin.) tin on solder side		G		04 to 50 (Double row)		Tube without cap from 04 to 25 pos.		U	
Right angle	10072354										
Gold flash on mating area, 2-6µm (79-237µin.) tin on solder side		F		Mating Side (length)		Solder Side (length)		Pin Style		Tape, availability on request	
				4.00		2.00		01		A	

PRODUCT

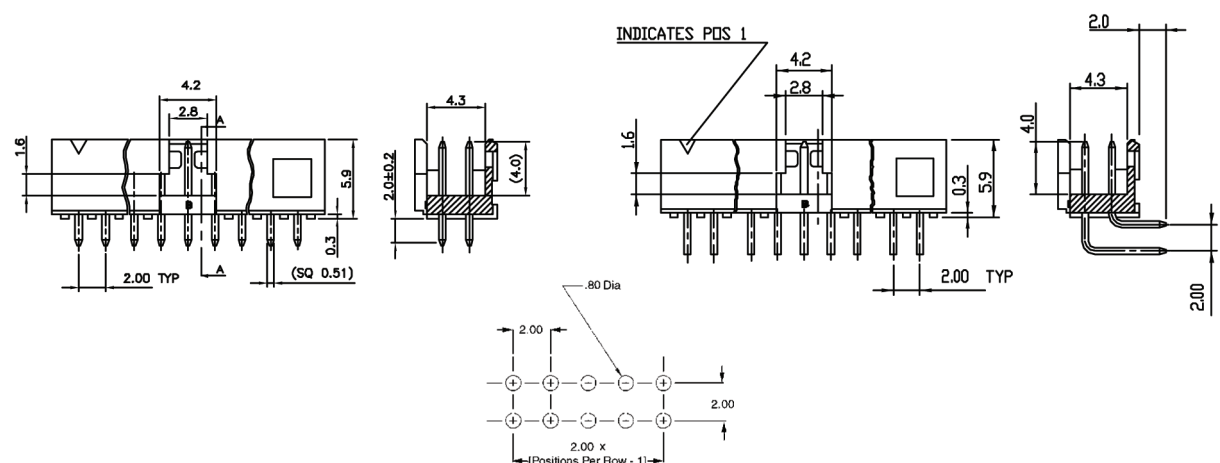
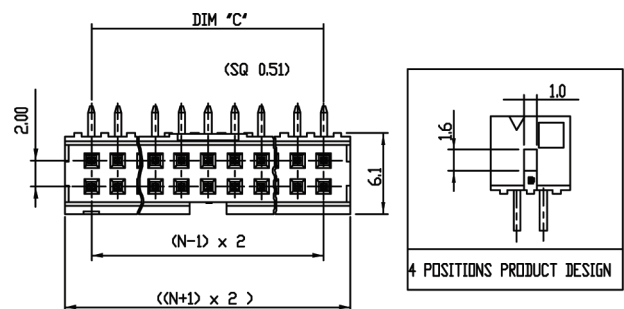
10075025

Vertical



10072354

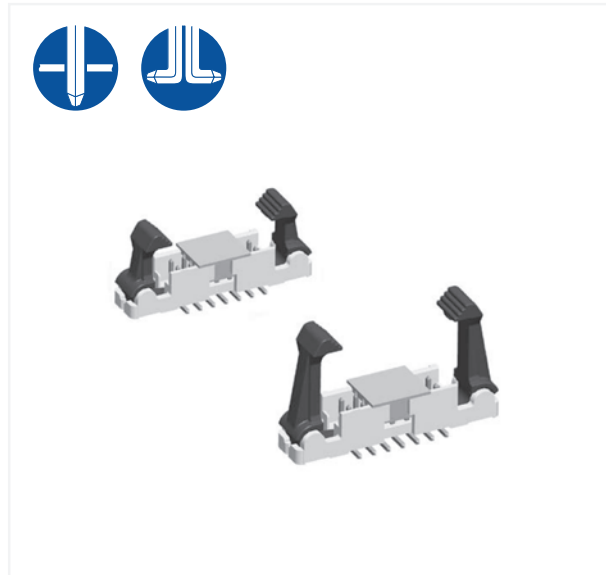
Right angle



Recommended PCB layouts

Dimension in mm

MINITEK® SHROUDED HEADERS EJECT LATCH



FEATURES & BENEFITS

- Secure latching of cable connector
- Easy ejection when required
- Works with IDC connectors with or without strain relief
- Low profile

TECHNICAL INFORMATION

MATERIALS

- Housing: Body, cream-colored LCP, Latch black PA
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 2A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance: 25mΩ max.
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL

- Operating temperature range: -40°C to +125°C

MECHANICAL PERFORMANCE

- Latching retention force: 30 N min.

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: 8-digit part number
- Product specification: GS-12-469

APPROVALS AND CERTIFICATIONS

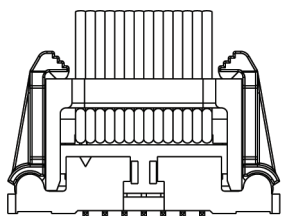
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

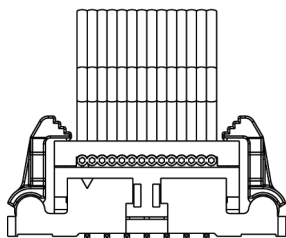
- Standard: Tubes

PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes



With strain relief
standard latch



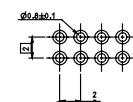
Without strain relief
low profile latch

CORE RANGE

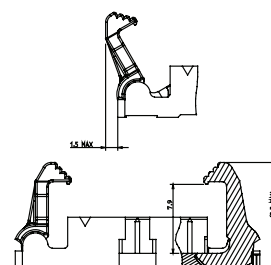
XX = 06, 08, 10, 12

* As available

10078991
Vertical TMT

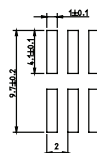


Recommended PCB Layout

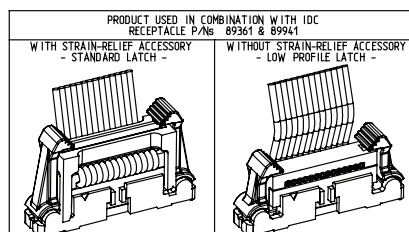


Low Profile Latch

10078995
Vertical SMT



Recommended PCB Layout



Dimension in mm

Disclaimer

Please note that the above information is subject to change without notice.

MINITEK® CRIMP-TO-WIRE HOUSINGS AND CONTACTS



FEATURES & BENEFITS

- Dual-beam contact design for highly reliable electrical performance
- Latching key assures proper alignment and friction retention



TECHNICAL INFORMATION

MATERIALS

- Housing: Black thermoplastic
- Flammability rating: UL94V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 2A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 650V
- Voltage rating: 200V

ENVIRONMENTAL

- Operating temperature range: -40°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100
- Contact retention to housing: 7.83 N (800gf) min.
- Mating force per contact: 1.77 N (180gf) max.
- Unmating force per contact: 0.20 N (20gf) min.

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing:
 - 77138 or 77139 – Contact
 - 69307, 90311 – Housing
- Product specification: 110-036
- Application specification: 100-006, TA-959

APPROVALS AND CERTIFICATIONS

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

PACKAGING

- Reels – Contacts
- Bags – Housings

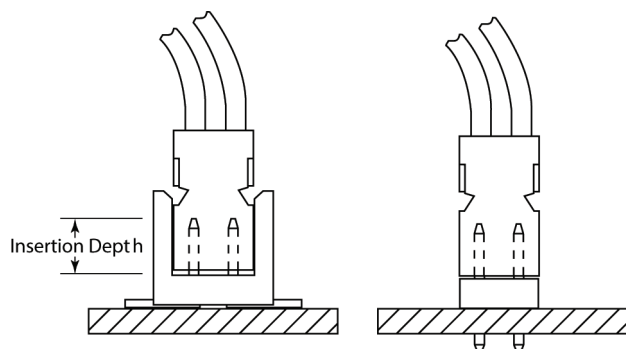
PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and IR reflow soldering processes

INSERTION DEPTH

- 2.40mm min. to 3.30mm max. [provides .381mm wipe]
- 3.63mm min. to 4.00mm max. [provides .381mm wipe in housing]

TYPICAL APPLICATIONS



PART NUMBERS

CORE RANGE

77138 — 101LF

10087010 — 0XXLF

XX = 04, 06, 08, 10, 12, 16, 20

CONTACTS

77138 — PLATING 0 1 LF

26 AWG to 30 AWG

0.76µm (30µin.) gold on mating area 1

Gold flash 0

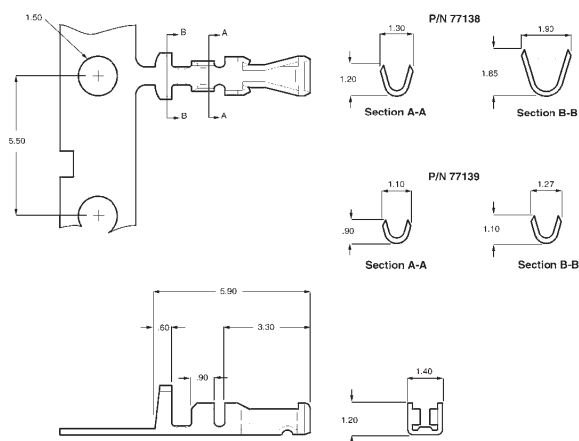
HOUSINGS

90311 — 0 TOTAL POSITIONS LF

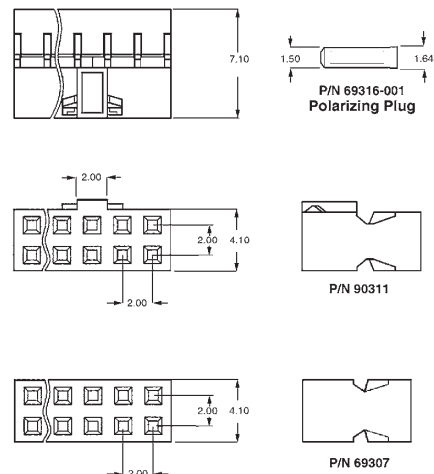
04 to 50 (Double row)

PRODUCT

CONTACTS

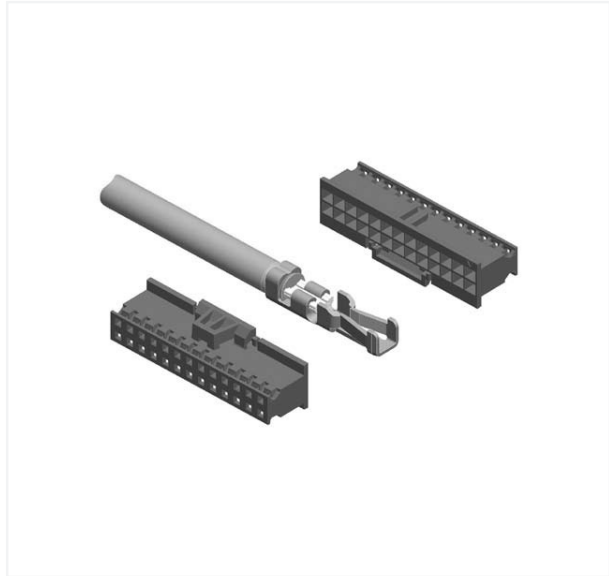


HOUSINGS



Dimension in mm

MINITEK® CRIMP-TO-WIRE ACTIVE LATCH HOUSINGS



FEATURES & BENEFITS

- Latching retention 15/25 N (depending on size) due to latch alone
- Latches with audible click
- Mates with standard Minitex® headers
- Latch can be released and parts unmated

TECHNICAL INFORMATION

MATERIALS

- Housing: Polyamide, black
- Flammability rating: UL94V-0

ELECTRICAL PERFORMANCE

- Insulation resistance: $1 \times 10^5 \text{ M}\Omega$ min.
- Dielectric withstanding voltage: 500V

ENVIRONMENTAL

- Operating temperature range: -55°C to $+125^\circ\text{C}$

MECHANICAL PERFORMANCE

- Latching retention force: 15 N min. (for 2x3 and 2x4 pos.)
- Latching retention force: 25 N min. (for 2x5 and 2x25 pos.)

SPECIFICATIONS

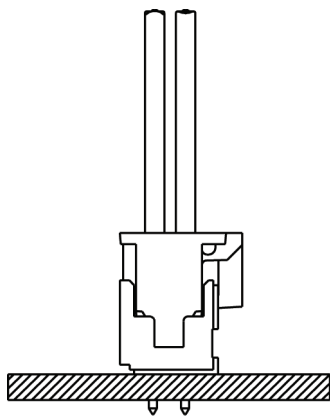
-  File no. E66906
-  File no. LR46923
- Product drawing: By 8-digit part number
- Product specification: GS-12-415

APPROVALS AND CERTIFICATIONS

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

PACKAGING

- Standard: Plastic bags



PART NUMBERS

CORE RANGE

77138 — 101LF

10073599 — 0XXLF

XX = 04, 08, 10, 12, 16, 20

CONTACTS

77138 — PLATING 0 1 LF

26 AWG to 30 AWG

0.76µm (30µin.) gold on mating area

1

Gold flash

0

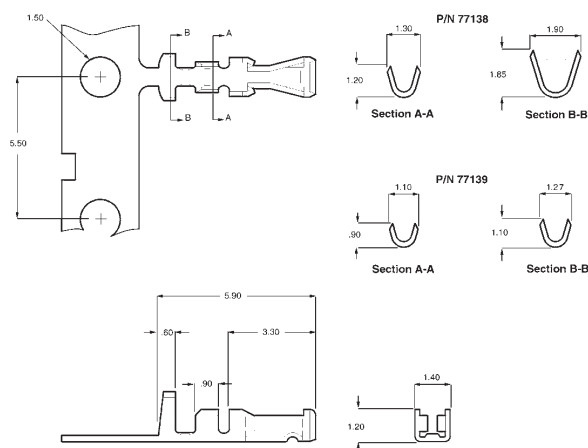
HOUSINGS

10073599 — 0 TOTAL POSITIONS LF

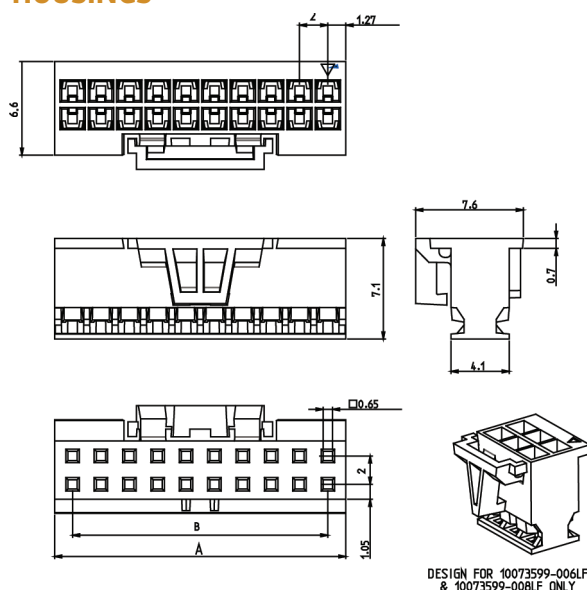
06 to 50

PRODUCT

CONTACTS



HOUSINGS



Dimension in mm

Disclaimer

Please note that the above information is subject to change without notice.

MINITEK® IDC RECEPTACLE



FEATURES & BENEFITS

- Early entry, single-beam contacts provide long wiping action for reliable electrical contact
- Center key polarization and friction latch options



TECHNICAL INFORMATION

MATERIALS

- Housing: Black thermoplastic
- Flammability rating: UL94V-0
- Contact: Phosphor-bronze
- Plating: Gold over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 1A continuous
- Insulation resistance: $1 \times 10^5 \text{M}\Omega$ min.
- Contact resistance: 30mΩ max.
- Dielectric withstanding voltage: 650V

ENVIRONMENTAL

- Operating temperature range: -40°C to +105°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

SPECIFICATIONS

-  File no. E66906
-  File no. LR46923
- Product drawing: 89947 or 89361
- Product specification: BUS-12-115

APPROVALS AND CERTIFICATIONS

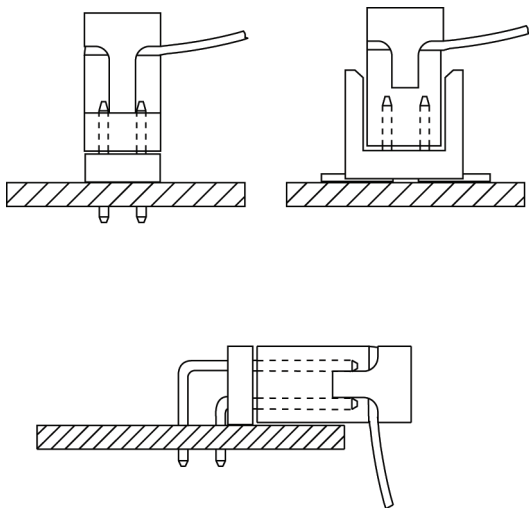
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

- Tubes

INSERTION DEPTH

- 2.55mm min. to 4.57mm max.
[provides .381mm wipe]



PART NUMBERS

CORE RANGE

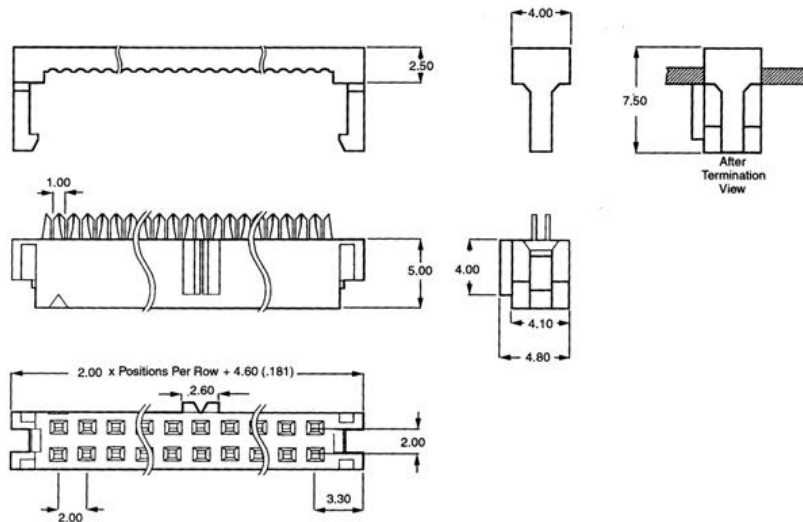
89361 — **7XXLF**

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

5-DIGIT BASE PART NUMBER	CENTER KEY	TOTAL POSITIONS	S	LF
0.76µm (30µin.) gold	89947	06 to 50	Add optional S for strain relief	Optional S
0.20µm (8µin.) gold	89361			

Standard	1
With center key and friction latching (available from 06 to 30 positions)	7

PRODUCT



Dimension in mm



MORE OPTIONS

If you need something more than the standard parts in this catalog, Basics+ has many more options to help you in your design process. Here are just some examples.

- Locating pins on SMT headers



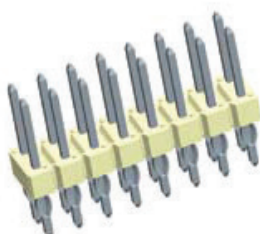
- Polarized (missing) positions



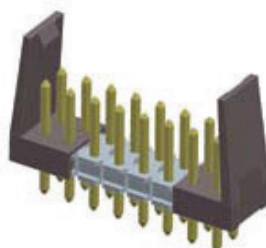
- Kinked legs



- Press-fit pins



- Add-on latches for headers



- Wide body headers



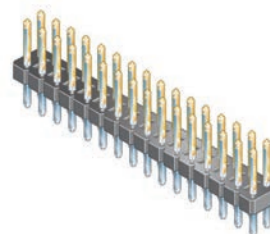
- Crimp-to-wire pin



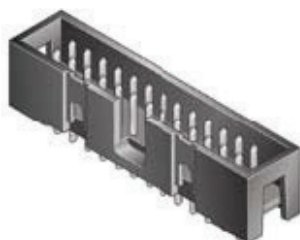
- Printed housings



- Additional plating options



- Pin-in-paste headers



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[57102-G08-16](#) [57102-S08-04](#) [57202-G52-05A](#) [59202-F40-10-153](#) [57202-S52-16](#) [59202-S36-25-114LF](#) [61698-302TRLF](#) [69057-012TC](#) [57102-G08-06](#) [57102-F08-25](#) [61698-302TR](#) [57102-S06-05](#) [58102-S61-13](#) [57102-G08-18LF](#) [98423-F61-02LF](#) [98423-F61-05LF](#) [98423-F61-05ULF](#) [98423-F61-06LF](#) [98423-F61-06ULF](#) [98423-F61-07LF](#) [98423-F61-07ULF](#) [98423-F61-10LF](#) [98423-F61-10ULF](#) [98423-F61-21LF](#) [98423-F61-21ULF](#) [98423-G61-03LF](#) [98423-G61-08LF](#) [98423-G61-08ULF](#) [98423-G61-10LF](#) [98423-G61-10ULF](#) [98423-G61-16LF](#) [98423-G61-16ULF](#) [98423-G61-17LF](#) [98423-G61-17ULF](#) [98423-G61-18LF](#) [98423-G61-18ULF](#) [98423-S61-20ULF](#) [57102-F06-04LF](#) [57102-F06-04ULF](#) [57102-F06-06LF](#) [57102-F06-13LF](#) [57102-F06-13ULF](#) [57102-F06-15LF](#) [57102-F06-15ULF](#) [57102-F06-22LF](#) [57102-F08-02LF](#) [57102-F08-03LF](#) [57102-F08-04LF](#) [57102-F08-04ULF](#) [57102-F08-05LF](#) [57102-F08-05ULF](#) [57102-F08-06LF](#) [57102-F08-08LF](#) [57102-F08-10LF](#) [57102-F08-10ULF](#) [57102-F08-11LF](#) [57102-F08-12LF](#) [57102-F08-16LF](#) [57102-F08-17LF](#) [57102-F08-18LF](#) [57102-F08-19LF](#) [57102-F08-20LF](#) [57102-F08-21LF](#) [57102-F08-22LF](#) [57102-F08-23LF](#) [57102-F08-24LF](#) [57102-G06-03LF](#) [57102-G06-04LF](#) [57102-G06-04ULF](#) [57102-G06-08LF](#) [57102-G06-08ULF](#) [57102-G06-10LF](#) [57102-G06-11LF](#) [57102-G06-12LF](#) [57102-G06-12ULF](#) [57102-G06-22LF](#) [57102-G06-22ULF](#) [57102-G06-25LF](#) [57102-G08-02LF](#) [57102-G08-03LF](#) [57102-G08-04LF](#) [57102-G08-05LF](#) [57102-G08-08LF](#) [57102-G08-09LF](#) [57102-G08-10LF](#) [57102-G08-12LF](#) [57102-G08-13LF](#) [57102-G08-13ULF](#) [57102-G08-15LF](#) [57102-G08-16LF](#) [57102-G08-17LF](#) [57102-G08-19LF](#) [57102-G08-22LF](#) [57102-G08-24LF](#) [57102-G08-25LF](#) [57202-F51-02LF](#) [57202-F51-03LF](#) [57202-F51-04LF](#) [57202-F51-06LF](#) [57202-F51-06ULF](#)