



**NEW**  
SHORT LEAD TIMES  
[www.fci.com/basicsleadtimes](http://www.fci.com/basicsleadtimes)



 Product Catalog  
2.54 mm SECTION

**basics** 

### TECHNICAL DATA

#### PHYSICAL

- Housing: High temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27 µm (50 µ") nickel

#### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1500 V

#### MECHANICAL PERFORMANCE

- Pin retention to housing: 9 N min.



#### OPERATING TEMPERATURE RANGE

- -65°C to +125°C

#### PACKAGING

- Standard: Bags
- Optional: Tubes or  
Tape-and-reel with pick-up cap  
(SMT pin style 01 only)

#### REFERENCE INFORMATION

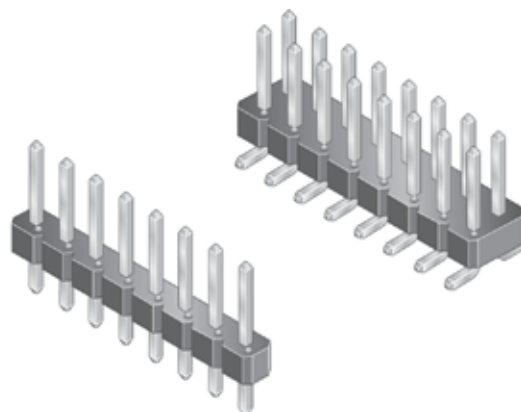
-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-114
- Tape and Reel packaging data: TA-840

#### PROCESSING INFORMATION

- Compatible with wave, vapor-phase, and (for SMT) IR reflow soldering processes
- Recommended IR profile TA 842 for SMT

#### RoHS INFORMATION

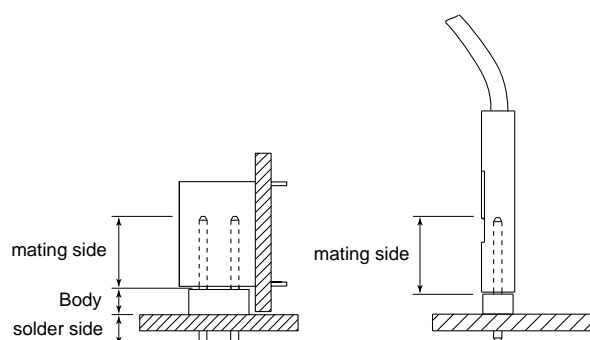
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



### MATING DATA

■ Dubox™ Crimp-to-wire contacts	32
■ Dubox™ Crimp-to-wire housings	34
■ Dubox™ Vertical receptacles	22
■ Dubox™ Low profile vertical receptacles	24, 26
■ Dubox™ Horizontal receptacles	28
■ Quickie™ IDC receptacles	48
■ PV™ Crimp-to-Wire Contacts	38
■ PV™ Crimp-to-Wire Housings	40

### TYPICAL APPLICATIONS



# BergStik® Unshrouded Header, Vertical, Standard Sizes

2.54 mm (.100")

## PART NUMBERS

5-Digit Base Part Number	Plating	Pin Style	Option	Total Positions	LF																																																
<b>Through mount</b> <b>77311</b> = Single Row <b>77313</b> = Double Row  <b>Surface mount</b> <b>95293</b> = Single Row <b>95278</b> = Double Row		<table border="1"> <thead> <tr> <th colspan="2">Surface mount</th> <th colspan="4">Through mount</th> </tr> <tr> <th>Pin style</th> <th>Mating</th> <th>Pin style</th> <th>Mating</th> <th>Solder</th> <th>overall length (OAL)</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>5.84</td> <td>01</td> <td>5.84</td> <td>2.41</td> <td>10.80</td> </tr> <tr> <td>02</td> <td>8.08</td> <td>18</td> <td>5.84</td> <td>3.05</td> <td>11.43</td> </tr> <tr> <td></td> <td></td> <td>02</td> <td>5.84</td> <td>3.42</td> <td>11.80</td> </tr> <tr> <td></td> <td></td> <td>27</td> <td>6.60</td> <td>2.66</td> <td>11.82</td> </tr> <tr> <td></td> <td></td> <td>22</td> <td>7.75</td> <td>3.06</td> <td>13.35</td> </tr> <tr> <td></td> <td></td> <td>24</td> <td>6.75</td> <td>2.90</td> <td>12.20</td> </tr> </tbody> </table>	Surface mount		Through mount				Pin style	Mating	Pin style	Mating	Solder	overall length (OAL)	01	5.84	01	5.84	2.41	10.80	02	8.08	18	5.84	3.05	11.43			02	5.84	3.42	11.80			27	6.60	2.66	11.82			22	7.75	3.06	13.35			24	6.75	2.90	12.20		<b>02 to 36</b> = Single row TMT <b>03 to 17</b> = Single Row SMT <b>04 to 72</b> = Double row TMT <b>04 to 50</b> = Double Row SMT <b>08 to 50</b> = Double Row SMT with pegs	
Surface mount		Through mount																																																			
Pin style	Mating	Pin style	Mating	Solder	overall length (OAL)																																																
01	5.84	01	5.84	2.41	10.80																																																
02	8.08	18	5.84	3.05	11.43																																																
		02	5.84	3.42	11.80																																																
		27	6.60	2.66	11.82																																																
		22	7.75	3.06	13.35																																																
		24	6.75	2.90	12.20																																																
<b>1</b> = 0.76 µm (30µ")gold/GXT on mating area, tin on solder side <b>4</b> = tin <b>8</b> = 0.38 µm (15µ") gold/GXT on mating area, tin on solder side				<table border="1"> <thead> <tr> <th>Option</th> <th>Packaging</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>Plastic bag</td> </tr> <tr> <td>A</td> <td>Tape-and-reel with pick-up cap*</td> </tr> <tr> <td>B</td> <td>Tube with pick-up cap</td> </tr> <tr> <td></td> <td>availability on request</td> </tr> </tbody> </table>	Option	Packaging	-	Plastic bag	A	Tape-and-reel with pick-up cap*	B	Tube with pick-up cap		availability on request																																							
Option	Packaging																																																				
-	Plastic bag																																																				
A	Tape-and-reel with pick-up cap*																																																				
B	Tube with pick-up cap																																																				
	availability on request																																																				

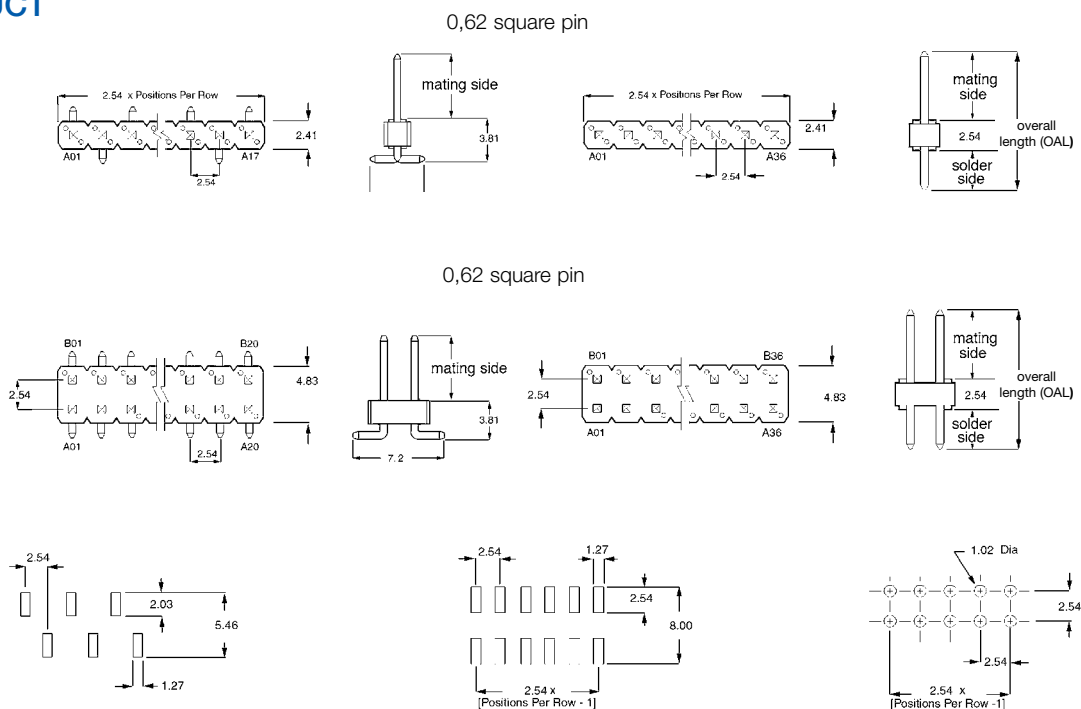
77311	-	101	-	XXLF
77311	-	118	-	XXLF
77311	-	124	-	XXLF
77313	-	101	-	XXLF
77313	-	118	-	XXLF
77313	-	124	-	XXLF
95278	-	101	A	XXLF

**CORE RANGE**

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

\*as available

## PRODUCT



Dimension in mm

## TECHNICAL DATA

### PHYSICAL

- Housing: High temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27 µm (50 µ") nickel



### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1500 V

### MECHANICAL PERFORMANCE

- Pin retention to housing: 9 N min.
- Retentive leg insertion force: >44.48 N max.
- Retentive leg board retention: 2.22 N

### OPERATING TEMPERATURE RANGE

- -65°C to +125°C

### PACKAGING

- Standard: Bags
- Optional: Tubes or  
Tape-and-reel with pick-up cap  
(SMT pin style 01 only)

### REFERENCE INFORMATION

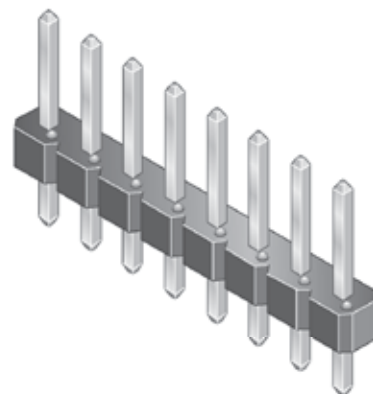
- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-114

### PROCESSING INFORMATION

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

### RoHS INFORMATION

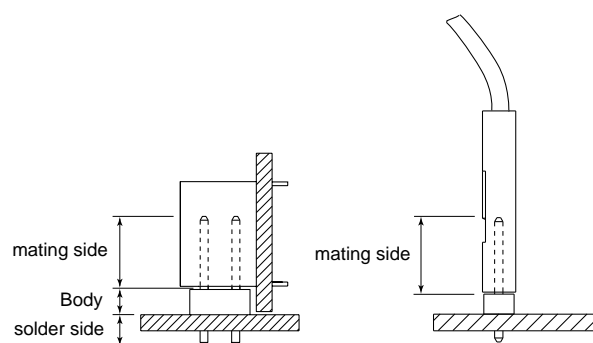
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



## MATING DATA

■ Dubox™ Crimp-to-wire contacts	32
■ Dubox™ Crimp-to-wire housings	34
■ Dubox™ Vertical receptacles	22
■ Dubox™ Low profile vertical receptacles	24, 26
■ Dubox™ Horizontal receptacles	28
■ Quickie™ IDC receptacles	48
■ PV™ Crimp-to-Wire Contacts	38
■ PV™ Crimp-to-Wire Housings	40

## TYPICAL APPLICATIONS

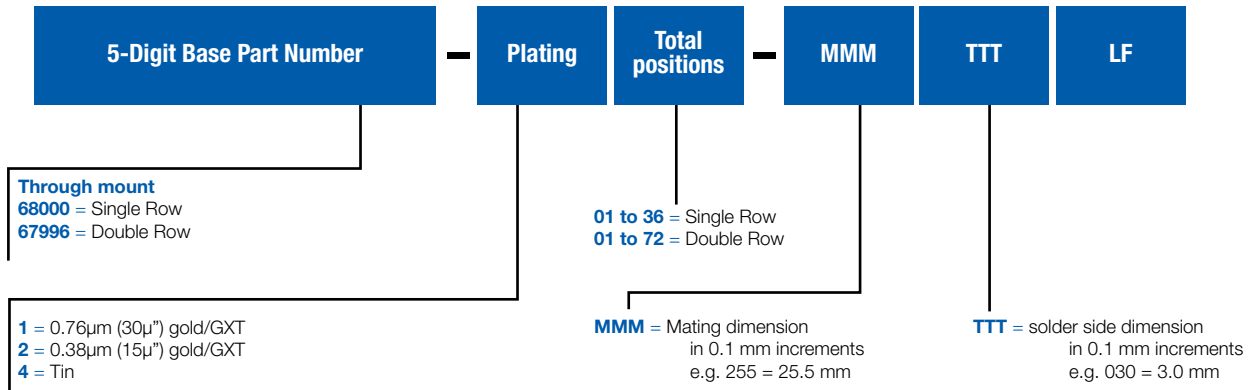


# BergStik® Unshrouded Header, Vertical, Custom Sizes

2.54 mm (.100")

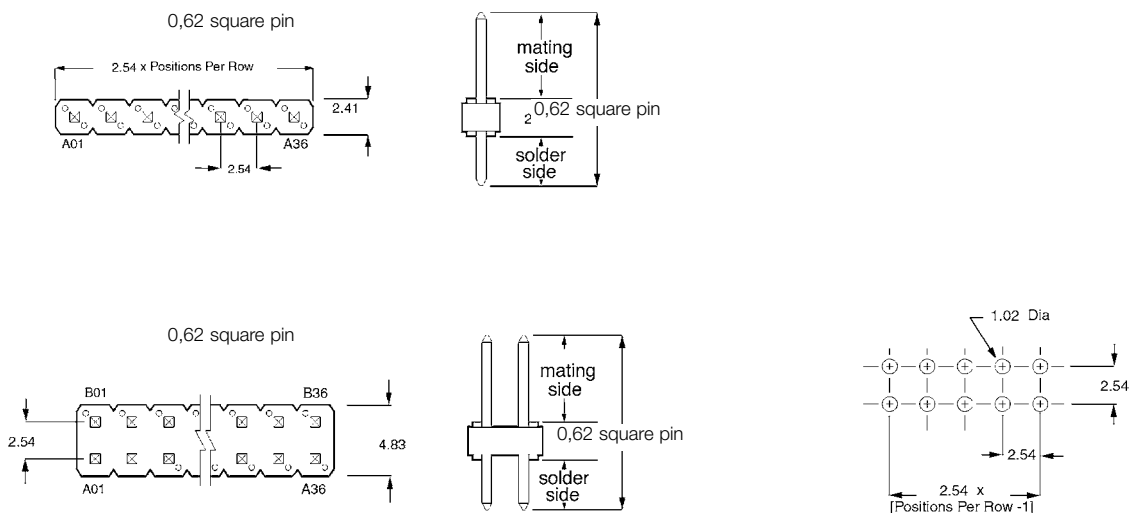
## PART NUMBERS

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



- Note:**
1. The total combined dimension for mating and solder side may not exceed 27 mm
  2. Standard packaging in bulk
  3. Special packaging availability upon request

## PRODUCT



Recommended PCB layouts

Dimension in mm

## FEATURES

- Continuously molded and reeled
- High temperature plastic
- Various lengths cut from 1 part number
- Benchtop machine cuts, polarizes, and applies retentive leg

## TECHNICAL DATA

### PHYSICAL

- Housing: High temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27  $\mu\text{m}$  (50  $\mu\text{in}$ ) nickel



### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance: 5000 M $\Omega$  min.
- Dielectric withstanding voltage: 1500 V

### MECHANICAL PERFORMANCE

- Pin retention to housing: 9 N min.

### OPERATING TEMPERATURE RANGE

- 65°C to +125°C

### PACKAGING

- Reel

### REFERENCE INFORMATION

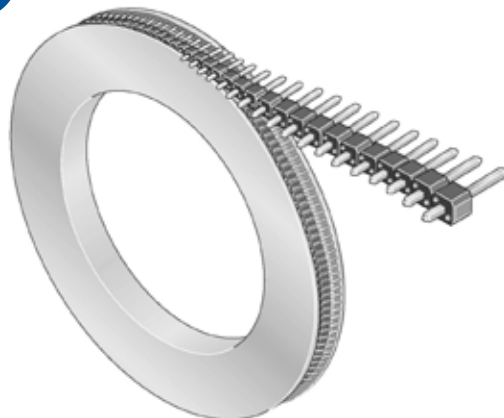
- File no. E66906
- File no. LR46923
- Product drawing: 54101 or 54102
- Product specification: BUS-12-059

### PROCESSING INFORMATION

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

### RoHS INFORMATION

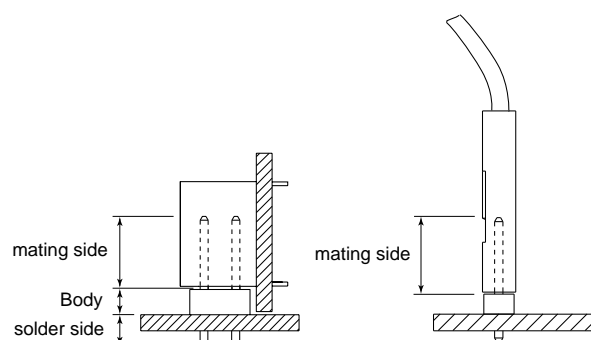
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



## MATING DATA

Dubox™ Crimp-to-wire contacts	32
Dubox™ Crimp-to-wire housings	34
Dubox™ Vertical receptacles	22
Dubox™ Low profile vertical receptacles	24, 26
Dubox™ Horizontal receptacles	28
Quickie™ IDC receptacles	48
PV™ Crimp-to-Wire Contacts	38
PV™ Crimp-to-Wire Housings	40

## TYPICAL APPLICATIONS



# BergStik® Unshrouded Header, Continuous

2.54 mm (.100")

## PART NUMBERS

5-Digit Base Part Number

-

Plating

-

Pin Style

-

00

-

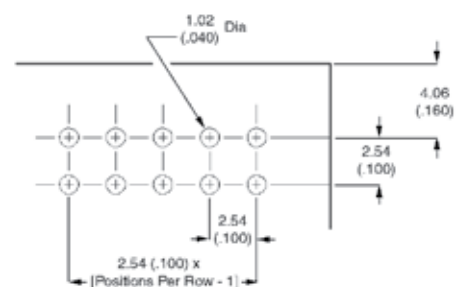
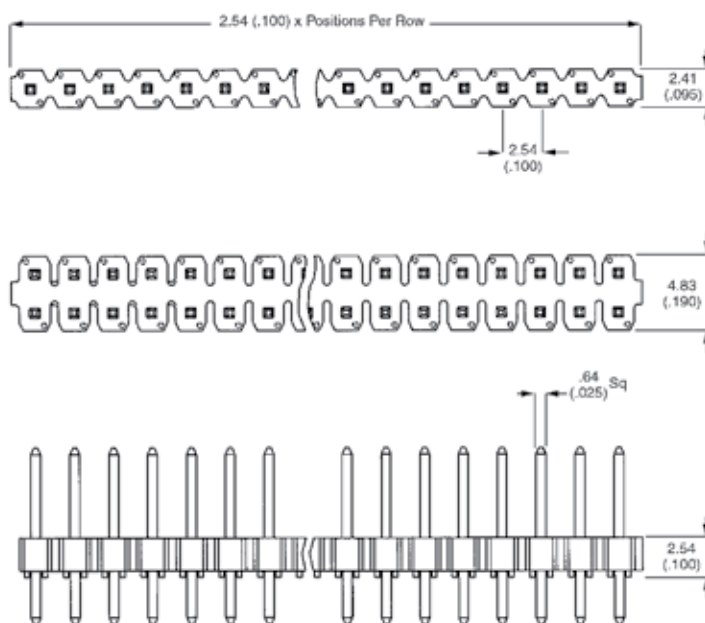
LF

**Through mount**  
**77311** = Single Row  
**77313** = Double Row

**1** = 0.76µm (30µ") gold/GXT on mating area, tin on solder side  
**4** = tin  
**8** = 0.38µm (15µ") gold/GXT on mating area, tin on solder side

Pin Style	mating length	solder length	overall length (OAL)
01	5.84	2.41	10.80
18	5.84	3.05	11.43
02	5.84	3.42	11.80
27	6.60	2.66	11.82
22	7.75	3.06	13.35
24	6.75	2.90	12.20

## PRODUCT



Recommended PCB layouts

Dimension in mm

### FEATURES

- High temperature plastic
- Selective plating

### TECHNICAL DATA

#### PHYSICAL

- Housing: High temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27 µm (50 µ") nickel



#### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1500 V

#### MECHANICAL PERFORMANCE

- Pin retention to housing: 9 N min.

#### OPERATING TEMPERATURE RANGE

- 65°C to +125°C

#### PACKAGING

- Bags

#### REFERENCE INFORMATION

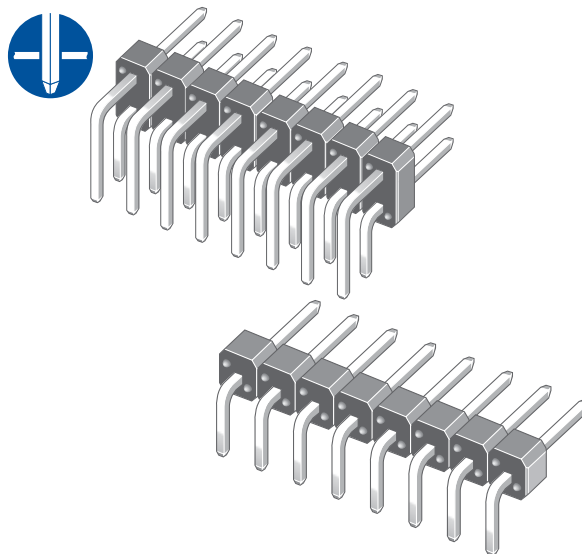
- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-114

#### PROCESSING INFORMATION

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

#### RoHS INFORMATION

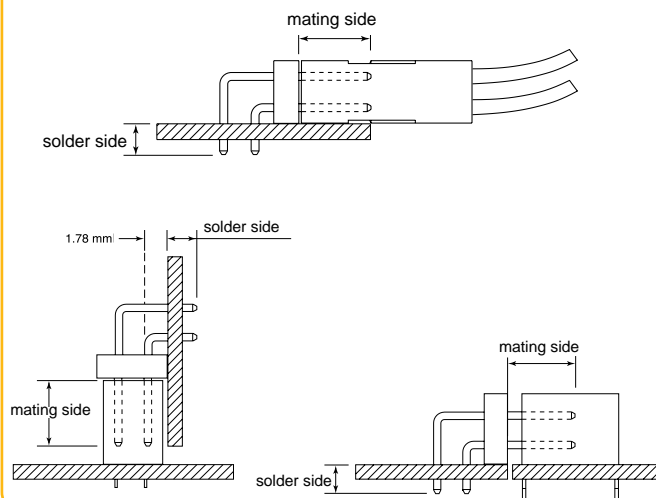
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



### MATING DATA

Dubox™ Crimp-to-wire contacts	32
Dubox™ Crimp-to-wire housings	34
Dubox™ Vertical receptacles	22
Dubox™ Low profile vertical receptacles	24, 26
Dubox™ Horizontal receptacles	28
Quickie™ IDC receptacles	48
PV™ Crimp-to-Wire Contacts	38
PV™ Crimp-to-Wire Housings	40

### TYPICAL APPLICATIONS

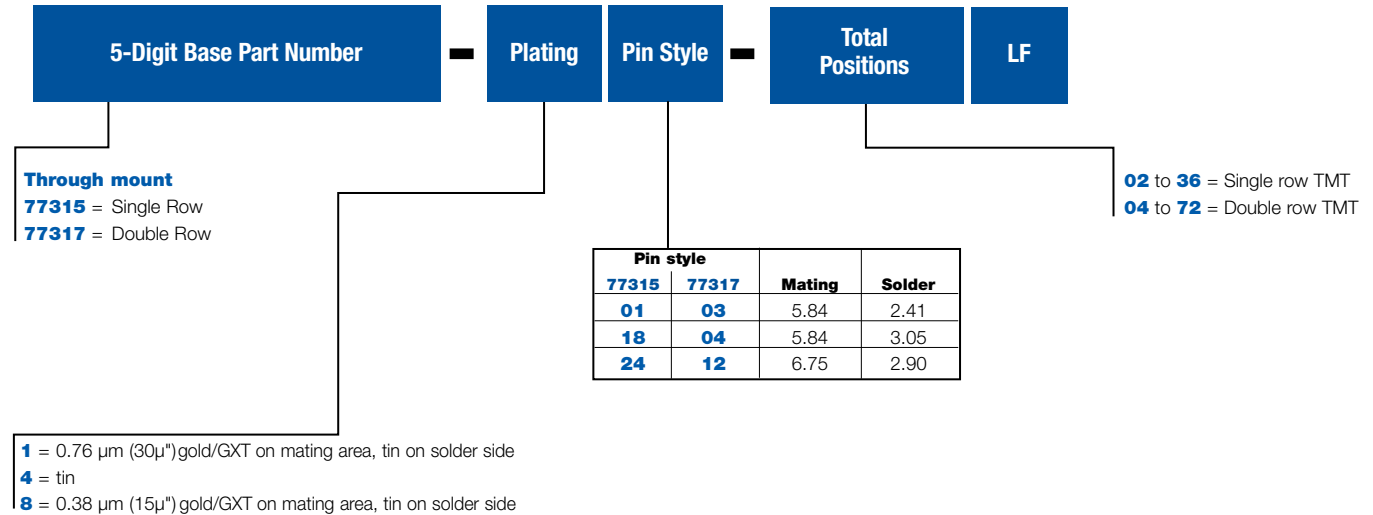




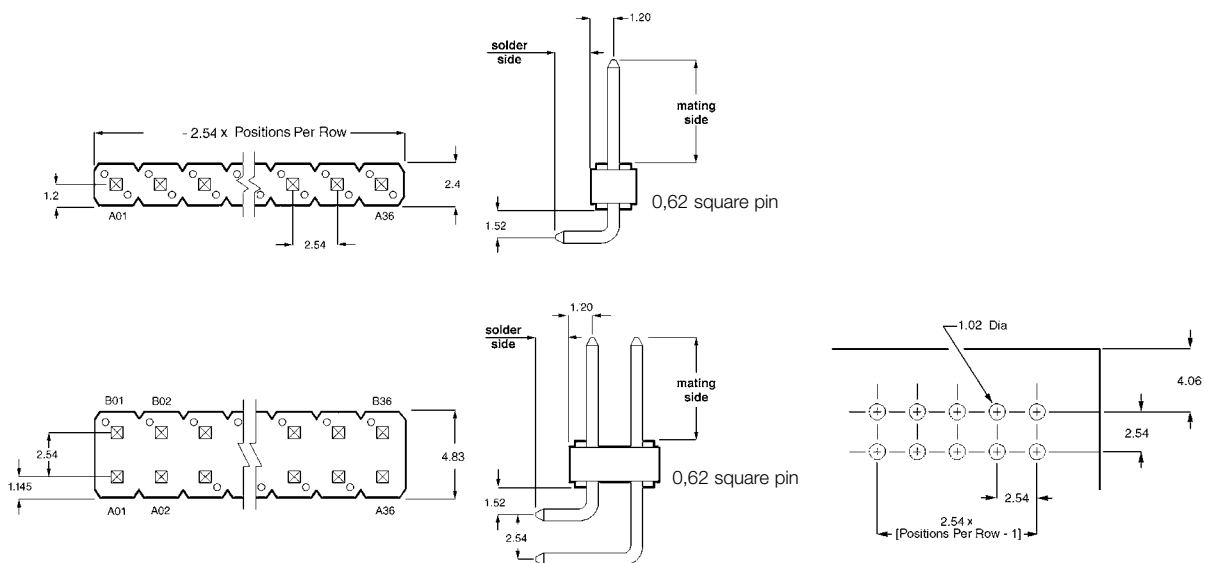
# BergStik® Unshrouded Header, Right Angle, Standard Sizes

2.54 mm (.100")

## PART NUMBERS



## PRODUCT



Recommended PCB layouts

Dimension in mm

## TECHNICAL DATA

### PHYSICAL

- Housing: High temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27  $\mu\text{m}$  (50  $\mu\text{in}$ ) nickel



### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance: 5000 M $\Omega$  min.
- Dielectric withstanding voltage: 1500 V

### MECHANICAL PERFORMANCE

- Pin retention to housing: 9 N min.
- Retentive leg insertion force: >44.48 N max.
- Retentive leg board retention: 2.22 N

### OPERATING TEMPERATURE RANGE

- -65°C to +125°C

### PACKAGING

- Bags

### REFERENCE INFORMATION

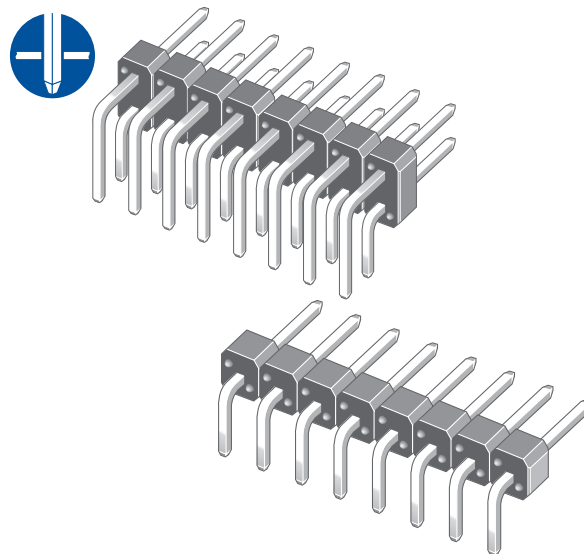
- File no. E66906
- File no. LR46923
- Product drawing: 55101 or 55102
- Product specification: BUS-12-114

### PROCESSING INFORMATION

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

### RoHS INFORMATION

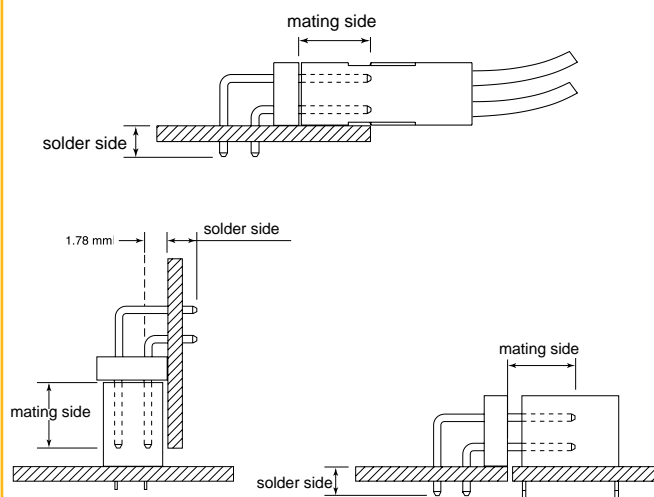
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



## MATING DATA

■ Dubox™ Crimp-to-wire contacts	32
■ Dubox™ Crimp-to-wire housings	34
■ Dubox™ Vertical receptacles	22
■ Dubox™ Low profile vertical receptacles	24, 26
■ Dubox™ Horizontal receptacles	28
■ Quickie™ IDC receptacles	48
■ PV™ Crimp-to-Wire Contacts	38
■ PV™ Crimp-to-Wire Housings	40

## TYPICAL APPLICATIONS

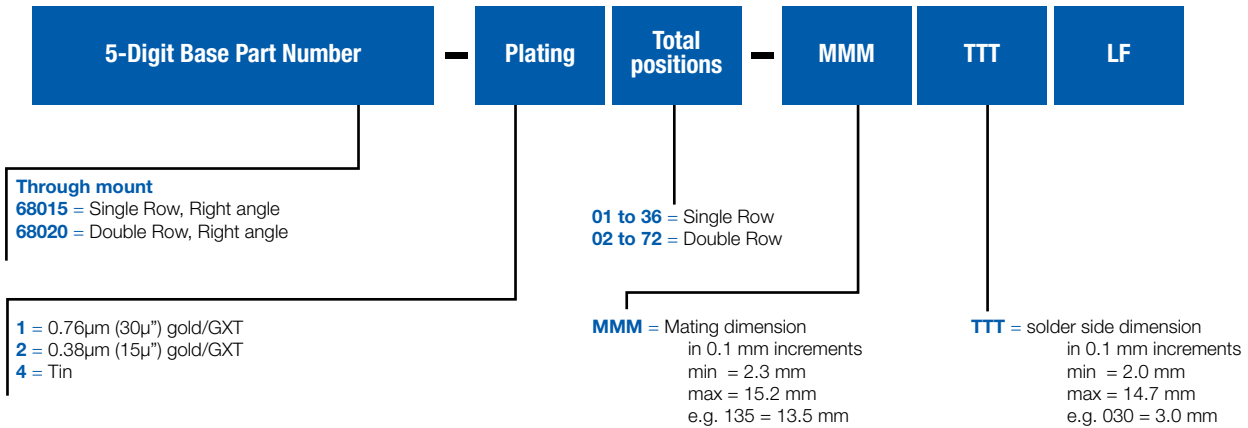


# BergStik® Unshrouded Header, Right Angle, Custom Sizes

2.54 mm (.100")

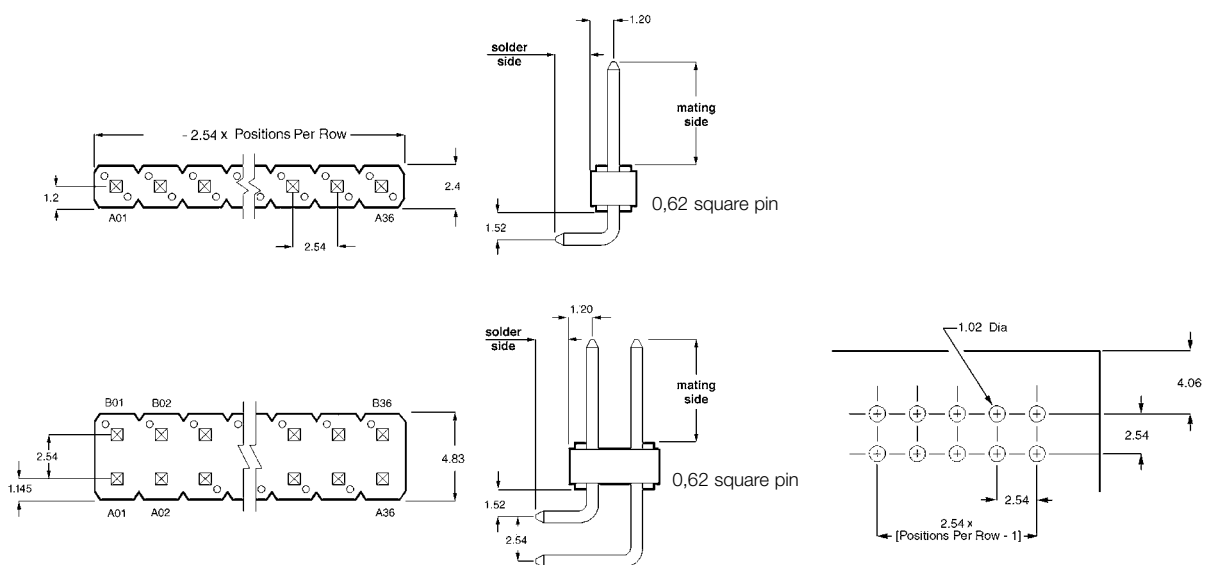
## PART NUMBERS

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



- Note:** 1. Bend dimension 1.52 mm only  
 2. The total combined dimension for mating and solder side may not exceed 25,5 mm

## PRODUCT



Recommended PCB layouts

Dimension in mm

## FEATURES

- Wide variety of stack heights in 0.5 mm increments
- High temperature plastic
- Selective plating

## TECHNICAL DATA

### PHYSICAL

- Housing: High temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27  $\mu\text{m}$  (50  $\mu\text{in}$ ) nickel



### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance: 5000 M $\Omega$  min.
- Dielectric withstanding voltage: 1500 V

### MECHANICAL PERFORMANCE

- Pin retention to housing: 9 N min.

### OPERATING TEMPERATURE RANGE

- 65°C to +125°C

### PACKAGING

- Bags

### REFERENCE INFORMATION

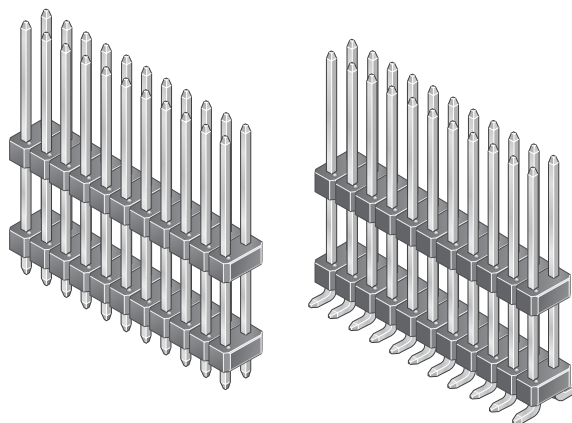
- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-114

### PROCESSING INFORMATION

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

### RoHS INFORMATION

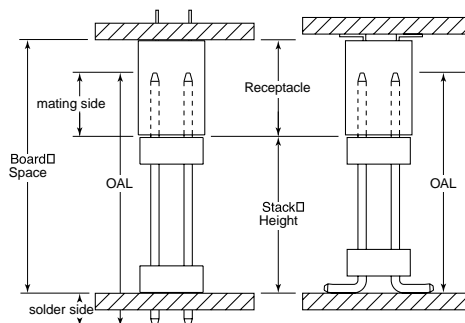
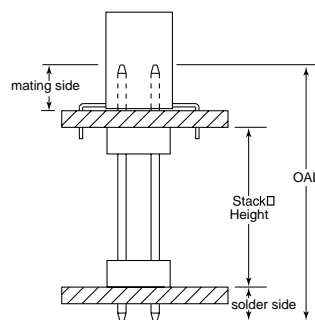
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



## MATING DATA

- Dubox™ Vertical receptacles 22
- Dubox™ Low profile vertical receptacles 24, 26

## TYPICAL APPLICATIONS



# BergStik® Unshrouded Header, Stacking

2.54 mm (.100")

## PART NUMBERS

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

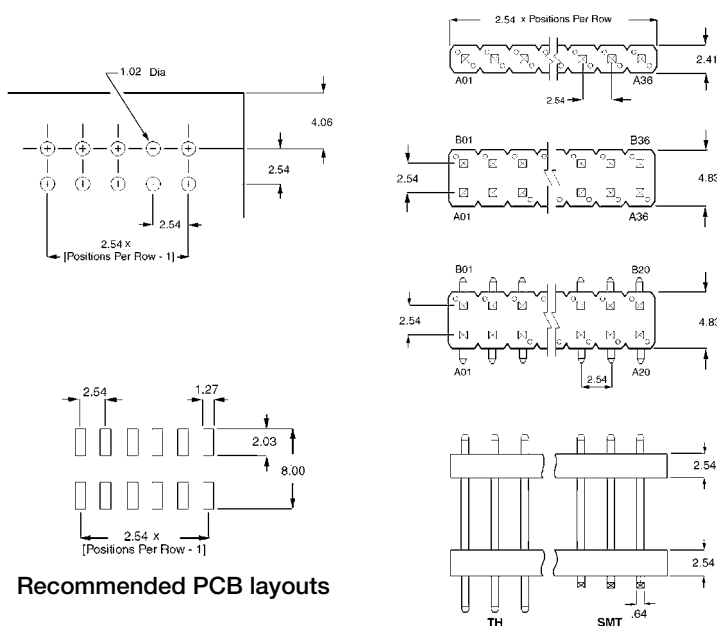
5	4	Lead	Solder Side Option	Row Option	Plating	Pin Style	Total Positions	Stack Height	LF
	<b>1</b> = Through Hole (TMT) <b>2</b> = Surface Mount (SMT)			<b>1</b> = Single Row (TMT only) <b>2</b> = Double Row			<b>02</b> to <b>36</b> single row (TMT) <b>04</b> to <b>72</b> double row (TMT) <b>04</b> to <b>50</b> double row (SMT)		
	<b>1</b> = 2.41 mm <b>2</b> = 3.05 mm <b>4</b> = SMT (double row only)								
		<b>1</b> = 0.76 µm (30µ") gold/GXT on mating area, tin on solder side <b>8</b> = 0.38 µm (15µ") gold/GXT on mating area, tin on solder side							

Pin Style	Overall length (TMT) mm	Overall length (SMT) mm
<b>01</b>	12.20	10.42
<b>02</b>	13.50	11.72
<b>03</b>	15.90	14.12
<b>04</b>	16.76	14.98
<b>05</b>	17.65	15.87
<b>06</b>	18.91	17.13
<b>07</b>	20.96	19.18
<b>08</b>	23.50	21.72
<b>09</b>	26.04	24.26
<b>10</b>	28.58	26.80
<b>11</b>	31.12	29.34
<b>12</b>	33.66	31.88

**XX.XX** = mm  
 Specify mm  
 i.e. 08.50 = 8.50 mm  
 in 0.50 mm increments  
**TMT** = 08.00 min. - 25.00 max.  
**SMT** = 09.50 min. - 26.00 max.

## PRODUCT



### The board spacing

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

Dimension in mm

## FEATURES

- Dual-beam contacts for added reliability
- Slotted cutout in low profile housing simplifies electrical testing
- Side-by-side and end-to-end stackable

## TECHNICAL DATA

### PHYSICAL

- Housing: Black thermoplastic
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin over 1.27  $\mu\text{m}$  (50  $\mu\text{in}$ ) nickel



low profile only

### ELECTRICAL PERFORMANCE

- Current rating: 2.5 A max. per contact
- Insulation resistance: 50,000  $\text{M}\Omega$  min.
- Contact resistance: 15  $\text{M}\Omega$  max. initial, 20  $\text{M}\Omega$  max. after environmental tests

Dielectric withstanding voltage: 800 V

### MECHANICAL PERFORMANCE

- Mating cycles (durability): 50-Gold, 25-Tin.
- Insertion force: 450 gf max. per gold contact  
500 gf max. per tin-lead contact
- Withdrawal force: 30 gf min. per gold contact  
30 gf min. per tin-lead contact.



### OPERATING TEMPERATURE RANGE

- -65°C to +125°C

### PACKAGING

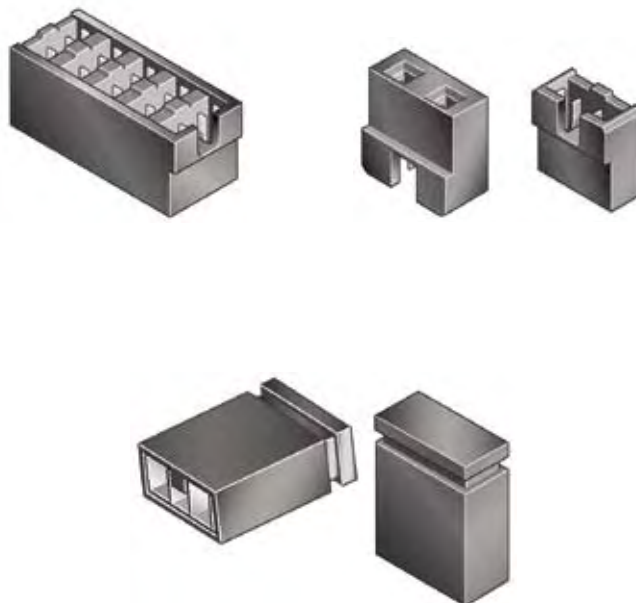
- Plastic bags

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-071-gold  
BUS-12-070-tin

### RoHS INFORMATION

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



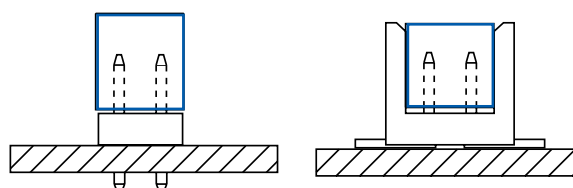
## MATING DATA

- Continuous unshrouded headers 12
- Unshrouded vertical headers 8, 10
- Unshrouded right angle headers 1 14, 16

## INSERTION DEPTH

- 4.85 mm (.191") min.  
[provides 3.81 mm (.15") wipe] - Low profile

## TYPICAL APPLICATIONS



# SHUNTS

2.54 mm (.100")

## PART NUMBERS

### Low profile



2 = 0.76  $\mu$ m (30 $\mu$ " ) gold  
3 = tin

### Standard



2 = 0.76  $\mu$ m (30 $\mu$ " ) gold  
3 = tin

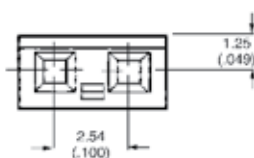
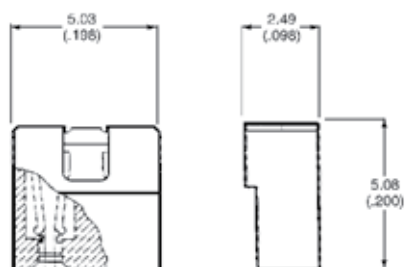
### Multi-position



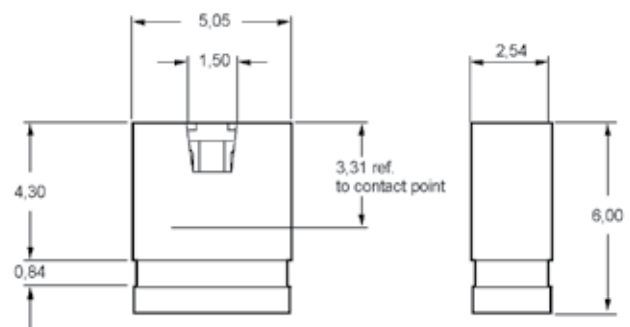
2 = 0.76  $\mu$ m (30 $\mu$ " ) gold  
3 = tin  
4 to 20 positions



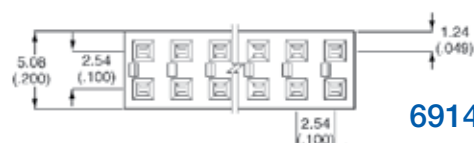
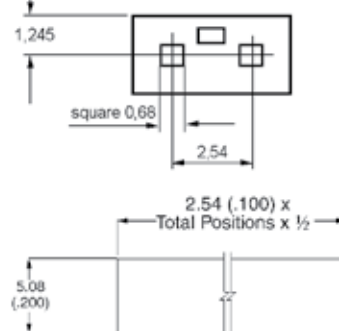
## PRODUCT



68786



63429



69145

Dimension in mm

## FEATURES

- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- 4-wall contact design for signal protection

## TECHNICAL DATA

### PHYSICAL

- Housing: Glass filled thermoplastic polyester, blue
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin in accordance with IEC 603-81

### ELECTRICAL PERFORMANCE

- Current rating: 3 A dc max. per individual contact  
2 A dc max. per contact for fully energized connector
- Insulation resistance:  $1 \times 10^5$  M $\Omega$  min.
- Contact resistance: 15 M $\Omega$  max. initial,  
20 M $\Omega$  max. after environmental tests
- Dielectric withstanding voltage: 1000 V rms

### MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150 gf) max.
- Withdrawal force per gold contact: 0.30 N (30 gf) min.

### OPERATING TEMPERATURE RANGE

- -65°C to +125°C

### PACKAGING

- Plastic boxes or tubes

### PROCESSING INFORMATION

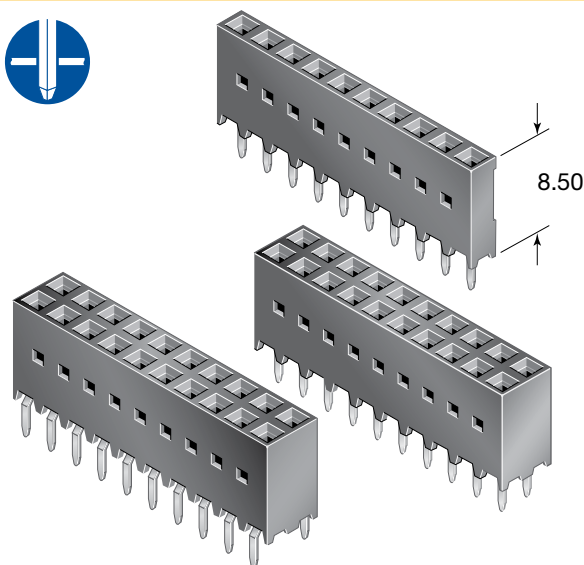
- Compatible with wave soldering processes

### REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: HE 13/14 and IEC 603-8

### RoHS INFORMATION

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



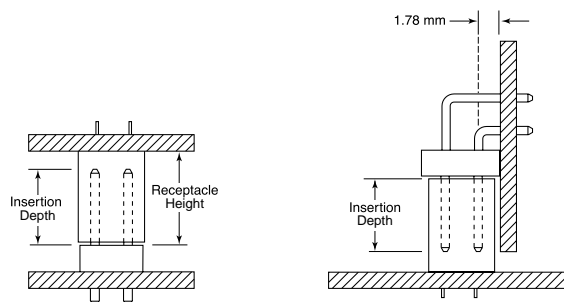
## MATING DATA

- BergStik® Unshrouded vertical headers 8, 10
- BergStik® Unshrouded right angle headers 14, 16
- BergStik® Unshrouded stacking headers 18
- BergStik® continuous Unshrouded headers 12

## INSERTION DEPTH

- Top Entry: 3.6 mm min. to 6.81 mm max.  
[provides .381 mm wipe]
- Bottom Entry: 7 mm min.  
[provides .381 mm wipe] plus board thickness

## TYPICAL APPLICATIONS

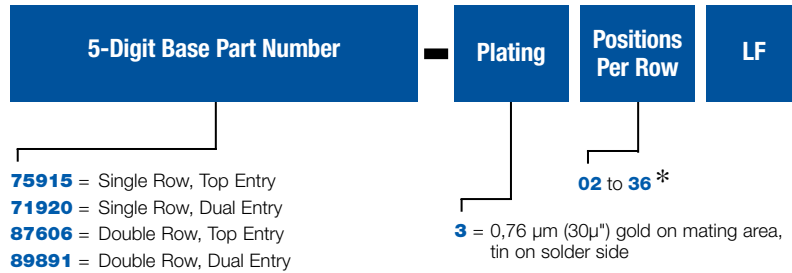




# Dubox™ Vertical Receptacles

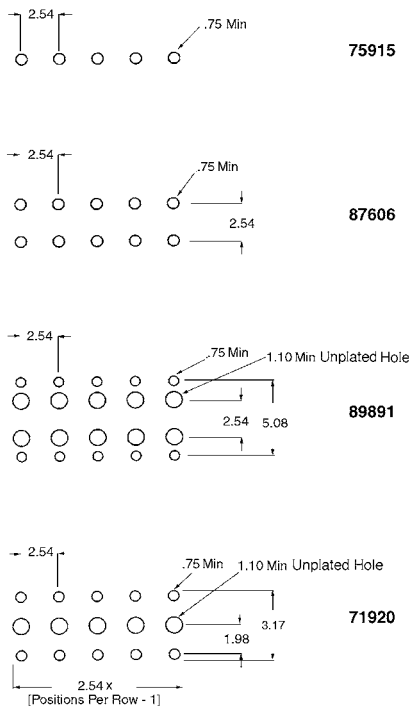
2.54 mm (.100")

## PART NUMBERS



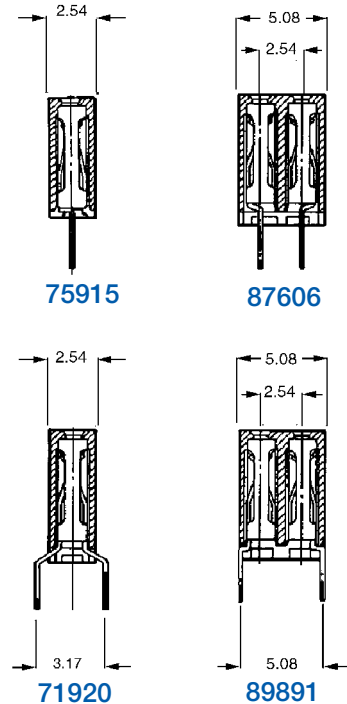
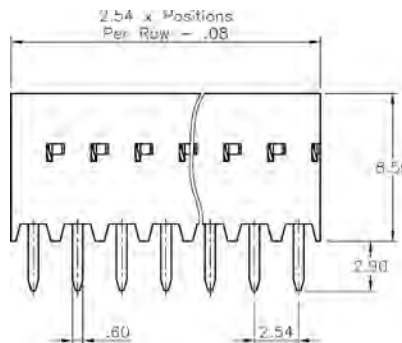
\* Other sizes available on request

## PRODUCT



Recommended PCB layouts

Dimension in mm



## FEATURES

- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- 4-wall contact design for signal protection

## TECHNICAL DATA

### PHYSICAL

- Housing: Glass filled thermoplastic polyester, blue
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin over 1.27 µm (50 µ") nickel

### ELECTRICAL PERFORMANCE

- Current rating: 3 A dc max. per individual contact  
2 A dc max. per contact for fully energized connector
- Insulation resistance:  $1 \times 10^5$  MΩ min.
- Contact resistance: 15 MΩ max. initial,  
20 MΩ max. after environmental tests
- Dielectric withstanding voltage: 1000 V rms

### MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150 gf) max.
- Withdrawal force per gold contact: 0.30 N (30 gf) min.

### OPERATING TEMPERATURE RANGE

- -65°C to +125°C

### PACKAGING

- Plastic boxes or tubes

### PROCESSING INFORMATION

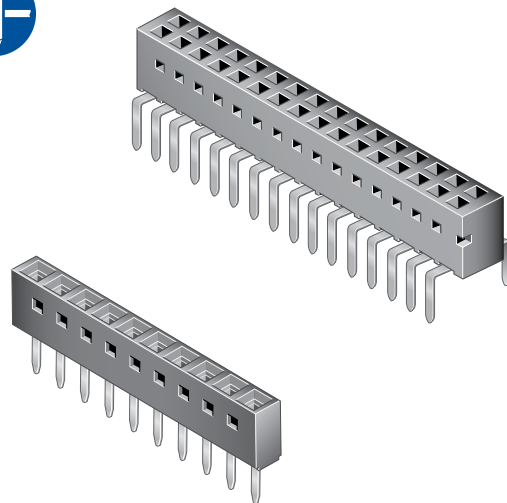
- Compatible with wave soldering processes

### REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-055

### RoHS INFORMATION

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



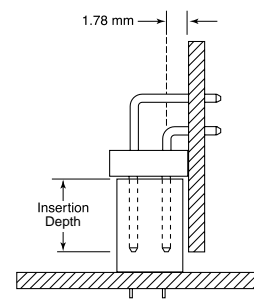
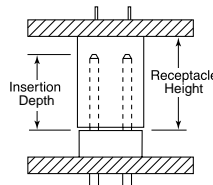
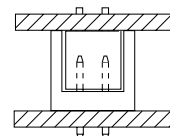
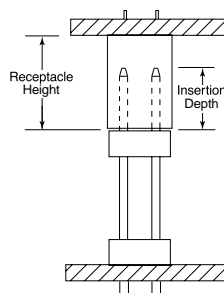
## MATING DATA

- BergStik® Unshrouded vertical headers 8, 10
- BergStik® Unshrouded right angle headers 14, 16
- BergStik® Unshrouded stacking headers 18
- BergStik® continuous Unshrouded headers 12

## INSERTION DEPTH

- Top Entry: 3.6 mm min. to 6.7 mm max.  
[provides .381 mm wipe]
- Bottom Entry: 6 mm min.  
[provides .381 mm wipe] plus board thickness

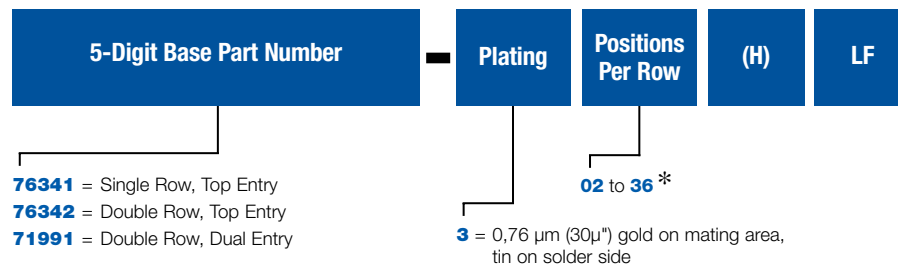
## TYPICAL APPLICATIONS



# Dubox™ Vertical Receptacles, Low Profile

2.54 mm (.100")

## PART NUMBERS

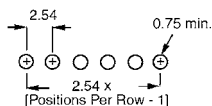


\* Other sizes available on request

## PRODUCT

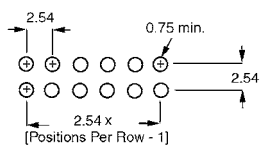
### P/N 76341

Top Entry



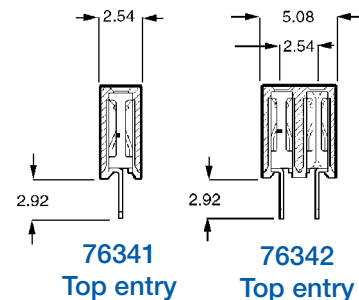
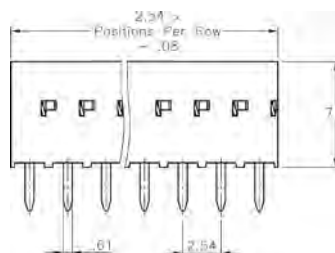
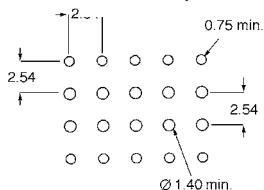
### P/N 76342

Top Entry



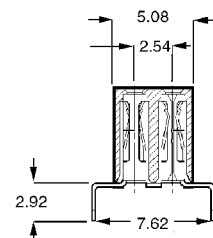
### P/N 71991

Dual Entry



**76341**  
Top entry

**76342**  
Top entry



**71991**  
Dual entry

## Recommended PCB layouts

Dimension in mm

## FEATURES

- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- 4-wall contact design for signal protection

## TECHNICAL DATA

### PHYSICAL

- Housing: High temperature body, grey
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin over 1.27 µm (50 µ") nickel



### ELECTRICAL PERFORMANCE

- Current rating: 3 A dc max. per individual contact  
2 A dc max. per contact for fully energized connector
- Insulation resistance: 1x 10<sup>5</sup> MΩ min.
- Contact resistance: 15 MΩ max. initial,  
20 MΩ max. after environmental tests
- Dielectric withstanding voltage: 1000 V rms

### MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150 gf) max.
- Withdrawal force per gold contact: 0.30 N (30 gf) min.

### OPERATING TEMPERATURE RANGE

- -65°C to +125°C



### PACKAGING

- Plastic boxes or tubes
- Tape and reel as available

### PROCESSING INFORMATION

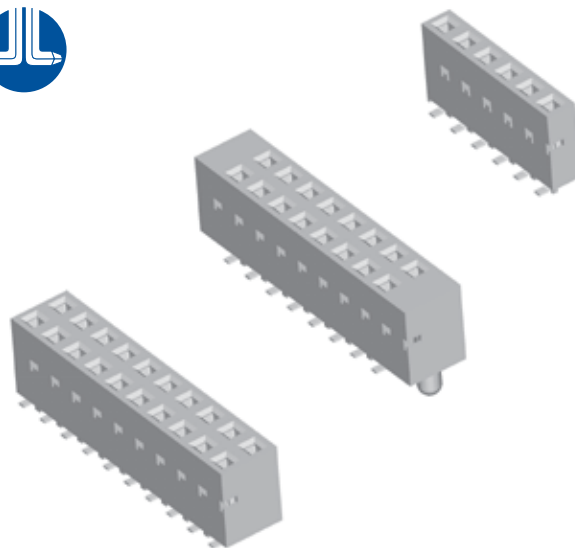
- Compatible with vapor-phase, and IR reflow soldering processes

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-055

### RoHS INFORMATION

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



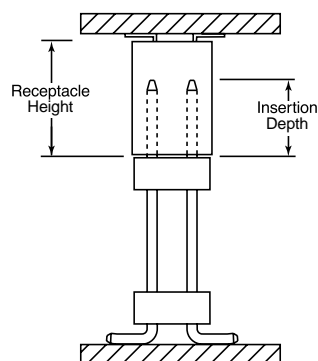
## MATING DATA

- BergStik® Unshrouded vertical headers 8, 10
- BergStik® Unshrouded right angle headers 14, 16
- BergStik® Unshrouded stacking headers 18
- BergStik® continuous Unshrouded headers 12

## INSERTION DEPTH

- Top Entry: 3.6 mm min. to 6.7 mm max.  
[provides .381 mm wipe]
- Bottom Entry: 6 mm min.  
[provides .381 mm wipe] plus board thickness

## TYPICAL APPLICATIONS



# Dubox™ Vertical Receptacles, Low Profile

2.54 mm (.100")

## PART NUMBERS



- 91601** = Single Row, Dual Entry
- 91614** = Single Row with external Locating Pegs, Dual Entry
- 89898** = Double Row, Dual Entry
- 91615** = Double Row with External Locating Pegs, Dual Entry
- 91618** = Double Row with Internal Locating Pegs, Dual Entry

— = standard-tubes

**A** = Tape-and-Reel packaging with pick-up cap \*

**02 to 25** Single Row

**02 to 25** Double Row

**3** = 0,76 µm (30µ") gold on mating area, tin on solder side

**89898 - 3XXALF**

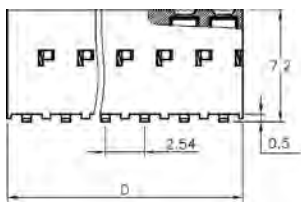
**CORE RANGE**

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

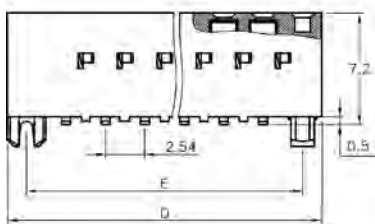
\* as available

## PRODUCT

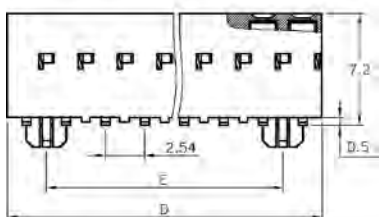
### Standard



### External Locating Pegs



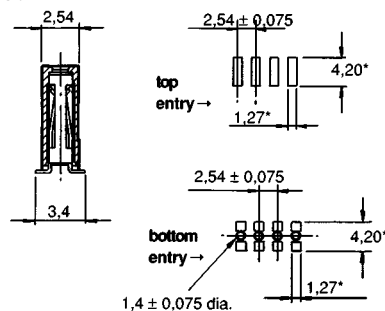
### Internal Locating Pegs



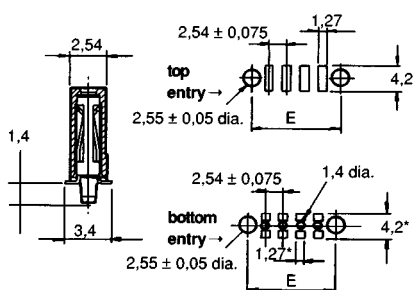
Dimension in mm

### Single Row + Pad lay-outs

**91601**



**91614**



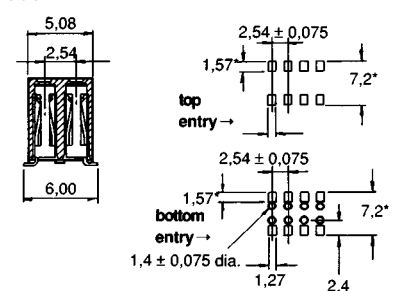
\*Note: available as of 3 position versions

not available in single row

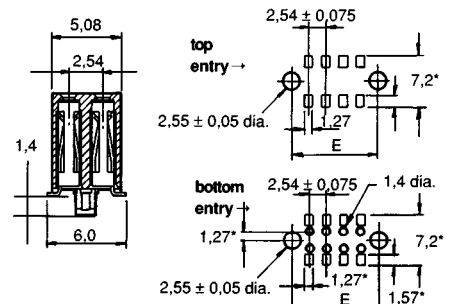
**Note:**  
All dimensions marked with \*  
are minimum dimensions

### Double Row + Pad lay-outs

**89898**

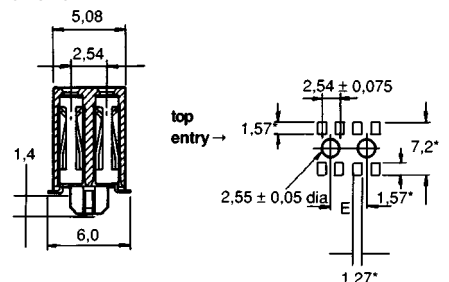


**91615**



\*Note: available as of 3 position versions

**91618**



\*Note: available as of 6 number of positions

## FEATURES

- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- Floating solder tails self-center on circuit pads and assure coplanarity
- 4-wall contact design for signal protection

## TECHNICAL DATA

### PHYSICAL

- Housing: Blue thermoplastic -Through hole  
High temp. grey thermoplastic - Surface mount
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin over 1.27 µm (50 µ") nickel



### ELECTRICAL PERFORMANCE

- Current rating: 3 A dc max. per individual contact  
2 A dc max. per contact for fully energized connector
- Insulation resistance: 1x 10<sup>5</sup> MΩ min.
- Contact resistance: 15 MΩ max. initial,  
20 MΩ max. after environmental tests
- Dielectric withstanding voltage: 1000 V rms

### MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150 gf) max.
- Withdrawal force per gold contact: 0.30 N (30 gf) min.

### OPERATING TEMPERATURE RANGE

- -65°C to +125°C

### PACKAGING

- Standard: Tubes
- Optional: Tape-and-reel

### PROCESSING INFORMATION

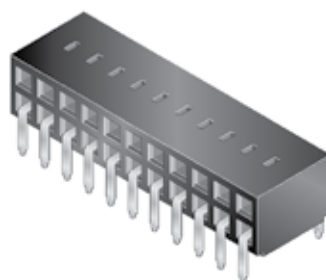
- Series 89882, 89883: compatible with wave soldering processes
- Series 71607, 71609: compatible with vapor-phase and IR reflow soldering processes

### REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: 71607, 71609, 89882, 89883
- Product specification: HE 13/14 and IEC 603-8
- Application specification: TA-842 for SMT
- Tape and Reel packaging data : TA-856

### RoHS INFORMATION

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



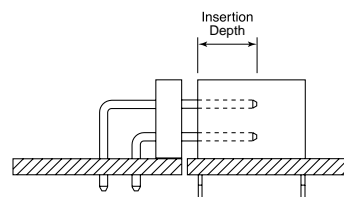
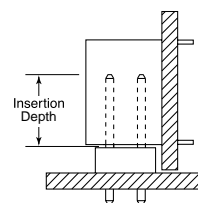
## MATING DATA

- BergStik® Unshrouded vertical headers 8, 10
- BergStik® Unshrouded right angle headers 14, 16
- BergStik® continuous Unshrouded headers 12

## INSERTION DEPTH

- 3,6 mm min. to 7.50 mm max.  
[provides .381 mm wipe]

## TYPICAL APPLICATIONS



# Dubox™ Horizontal Receptacles

2.54 mm (.100")

## PART NUMBERS

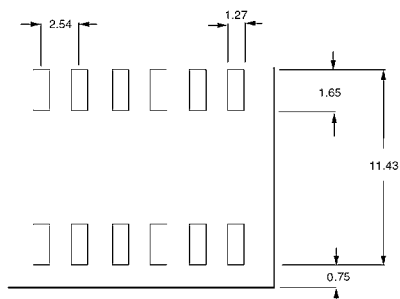
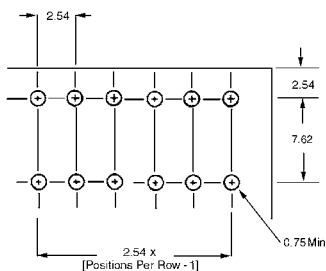


**89882** = Through Hole (TMT), Single Row  
**89883** = Through Hole (TMT), Double Row  
**71607** = Surface Mount (SMT), Single Row  
**71609** = Surface Mount (SMT), Double Row

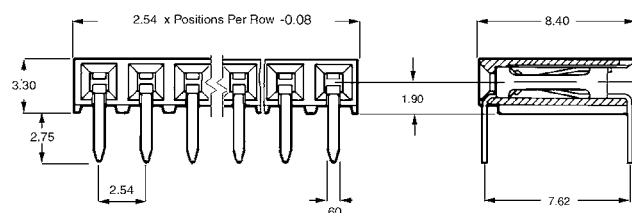
**02 to 36** (TMT)  
**02 to 25** (SMT)

**3** = 0,76 µm (30µ") gold on mating area, tin on solder side

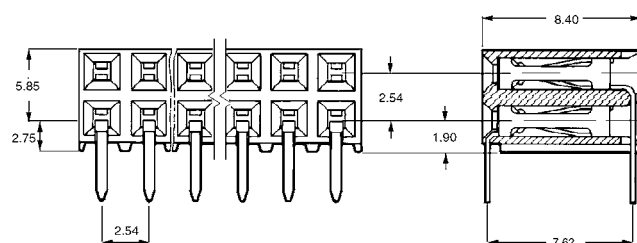
## PRODUCT



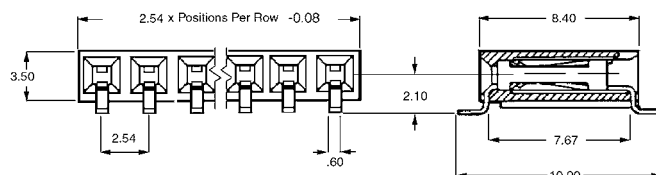
Recommended PCB layouts



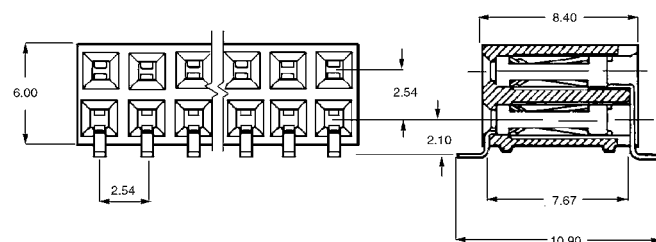
**89882**



**89883**



**71607**



**71609**

Dimension in mm

## FEATURES

- For use with Dubox™ crimp-to-wire housings
- Stackable end-to-end
- Passive latching, anti-reverse and anti-miss-match when used with Dubox™ crimp-to-wire housings
- Selective plating

## TECHNICAL DATA

### PHYSICAL

- Housing: Glass filled thermoplastic polyester
- Housing color for series 76382, 76383: blue
- Housing color for series 76384, 76385: black
- Flammability rating: UL 94 V-0
- Contact: copper Alloy
- Plating: Gold or tin over 1.27  $\mu\text{m}$  (50 $\mu$ "") nickel

### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance:  $1 \times 10^5 \text{ M}\Omega \text{ min.}$
- Dielectric withstanding voltage: 1000 V rms

### MECHANICAL PERFORMANCE

- Contact retention to housing: 20 N min.

### OPERATING TEMPERATURE RANGE

- -40°C to +125°C



### PACKAGING

- 1x2 to 1x6 and 2x2 to 2x6: plastic bags
- Other in tube

### PROCESSING INFORMATION

- Compatible with wave soldering processes

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Application specification: TA-531

### RoHS INFORMATION

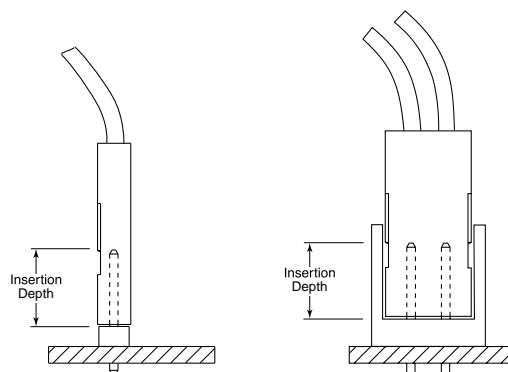
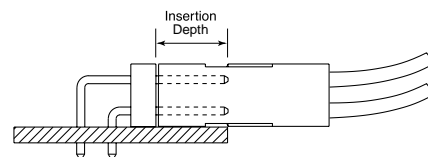
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



## MATING DATA

- Dubox™ Crimp-to-wire contacts 32
- Dubox™ Crimp-to-wire housings 34

## TYPICAL APPLICATIONS





# Dubox™ Shrouded Headers

2.54 mm (.100")

## PART NUMBERS

5-Digit Base Part Number	Plating	Positions Per Row	LF
--------------------------	---------	-------------------	----

- 76384** = Single row, straight
- 76382** = Single row, right angle
- 76385** = Double row, straight
- 76383** = Double row, right angle

02 up to 18

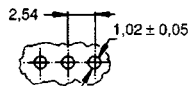
**3** = 0.76 µm (30µ") gold/GXT on mating area, tin on solder side  
**4** = tin

**76384** - **3XXLF** **CORE RANGE**  
**76385** - **3XXLF**

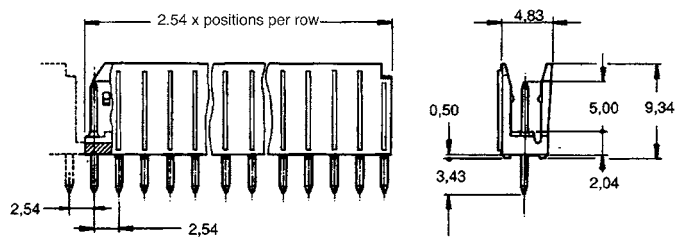
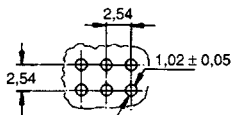
XX = 02, 03, 04, 05, 06, 08, 10

## PRODUCT

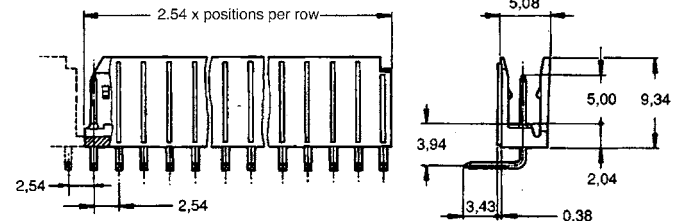
Recommended PCB layouts



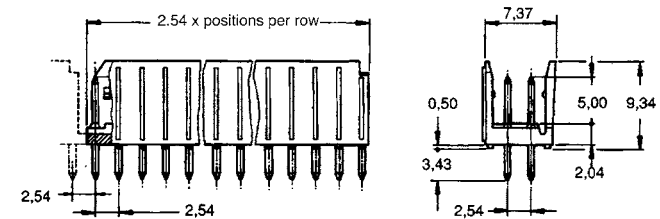
Recommended PCB layouts



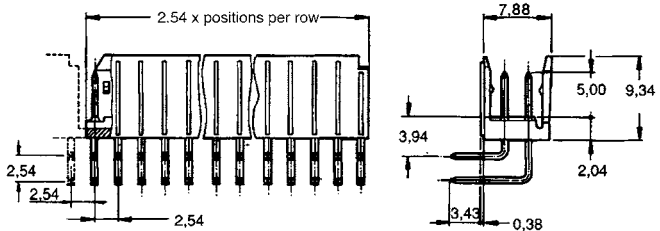
**76384**



**76382**



**76385**



**76383**

Dimension in mm

## FEATURES

- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force.
- Mates with very short pins (5 mm)
- Universal crimp barrel accommodates wires from AWG 22-30
- Selective plating

## TECHNICAL DATA

### PHYSICAL

- Contact: phosphor bronze
- Plating: 0.76 µm (30µ") Gold over 1.27 µm (50 µ") nickel

### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Contact resistance after environmental test: 15Ω m max. – Contact
- Dielectric withstanding voltage: 1000 V rms

### MECHANICAL PERFORMANCE

- Mating cycles (durability): 200 – Gold
- Insertion force gold finish contact: 1.3 N
- Withdrawal force (min) gold finish contact: 0.3 N.
- contact retention force to housing: 15 N per contact.



### OPERATING TEMPERATURE RANGE

- -65°C to +125°C

### PACKAGING

- 1 Reels
- Boxes - Loose piece

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-055
- Application specification: TA-317, TA-340

### RoHS INFORMATION

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



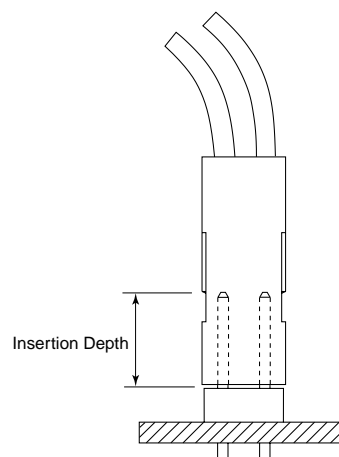
## MATING DATA

- BergStik® unshrouded straight headers 8, 10
- BergStik® unshrouded right angle headers 14, 16
- Dubox™ shrouded vert./ra. headers 30
- BergStik® continuous unshrouded headers 12

## INSERTION DEPTH

- Discrete Wire: 3.6 mm min. to 5.6 mm max.  
[provides .381 mm wipe]
- Crimp-to-Wire Housing: 5.1 mm min. to 6.2 mm max.  
[provides .381 mm wipe in housing]

## TYPICAL APPLICATIONS



# Dubox™ Crimp-to-Wire Contacts

2.54 mm (.100")

## PART NUMBERS

### Part numbers / Contacts on Reel

Wire size	insulation O.D.	Selective Gold Plated	Tin plated	Packaging
<b>22-30</b>	0.90 - 1.50	<b>76347-301LF</b>	<b>76347-401LF</b>	15.000/reel
<b>22-30</b>	0.90 - 1.50	<b>76347-302 LF•</b>	<b>76347-402LF•</b>	15.000/reel
<b>22-30</b>	0.90 - 1.50	<b>76347-303 LF</b>	<b>76347-403LF</b>	500/reel
<b>20-22</b>	1.10 - 1.60	<b>76347-311LF</b>	<b>76347-411LF</b>	15.000/reel
<b>20-22</b>	1.10 - 1.60	<b>76347-312 LF•</b>	<b>76347-412LF•</b>	15.000/reel

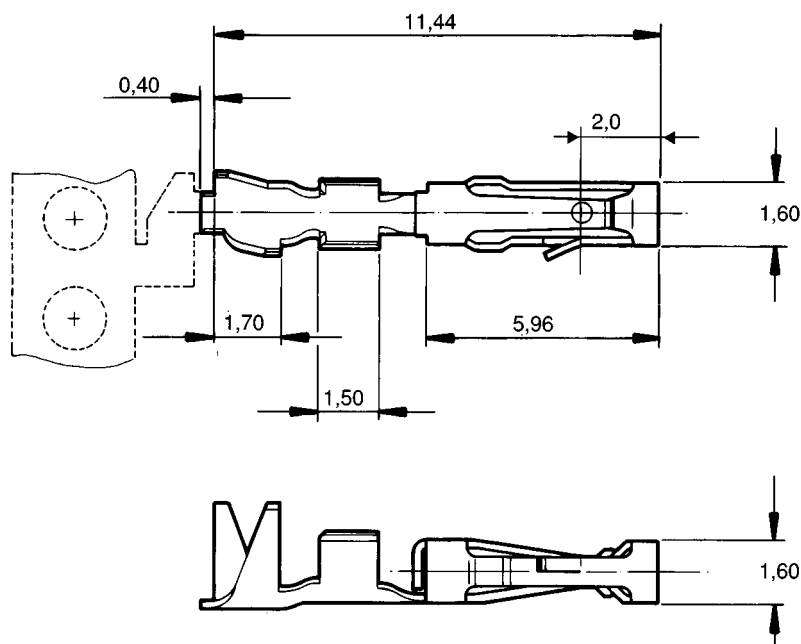
### Part numbers / Contacts loose Piece

Wire size	insulation O.D.	Selective Gold Plated	Tin plated	Packaging
<b>22-30</b>	0.90 - 1.50	<b>76357-301LF</b>	<b>76357-401LF</b>	1000/box

Notes: • = reeled for application machine with left-to-right feeding

**76347 - 301LF** **CORE RANGE**

## PRODUCT



**Contacts to be used with housing** = 65239-xxx / 65240-xxx

**Wire strip length** = 3,00 ± 0,25 mm

**Mating pin size** = 0,62 mm square

**Mating pin recommended length** = 5,00 mm min.

## FEATURES

- For use with Dubox™ crimp-to-wire contacts
- Stackable end-to-end
- Passive latching, anti-reverse and anti-miss-match when used with Dubox™ shrouded headers
- Contacts removable for easy repairability

## TECHNICAL DATA

### PHYSICAL

- Housing: Glass filled thermoplastic polyester
- Housing color blue
- Flammability rating: UL 94 V-0

### ELECTRICAL PERFORMANCE

- Insulation resistance:  $1 \times 10^5 \text{ M}\Omega \text{ min.}$
- Dielectric withstanding voltage: 1000 V rms

### OPERATING TEMPERATURE RANGE

- -65°C to +125°C



### PACKAGING

- Bulk

### PROCESSING INFORMATION

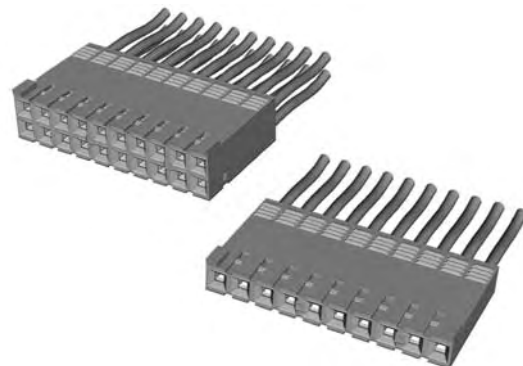
- Compatible with wave soldering processes

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Application specification: TA-317, TA-340

### RoHS INFORMATION

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



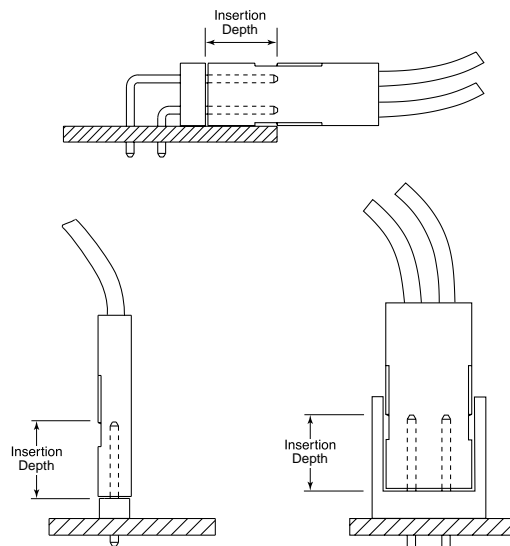
## MATING DATA

- BergStik® unshrouded straight headers 8, 10
- BergStik® unshrouded right angle headers 14, 16
- Dubox™ shrouded vert./ra. headers 30

## INSERTION DEPTH

- 3.6 mm min. to 6.0 mm max.

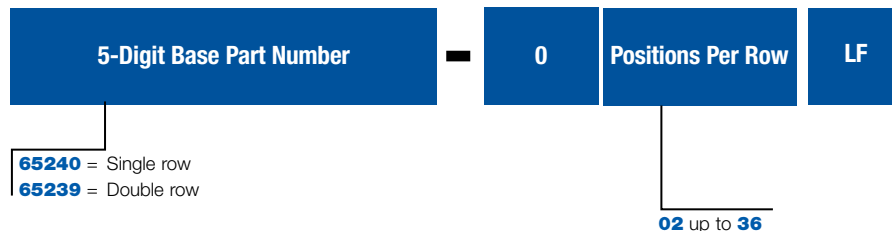
## TYPICAL APPLICATIONS



# Dubox™ Crimp-to-Wire Housings

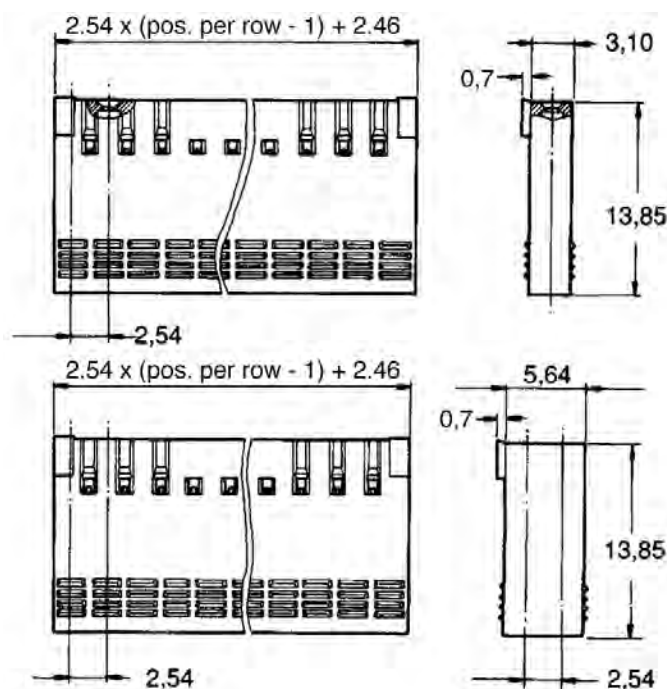
2.54 mm (.100")

## PART NUMBERS



65239	-	0XXLF	<b>CORE RANGE</b>
XX = 02, 03, 04, 05, 06, 08, 10			
65240	-	0XXLF	
XX = 04, 06, 08, 10, 12, 16, 20			

## PRODUCT



- Pin size: 0.62 mm square
- Recommended pin length: 5.00 mm min.

## FEATURES

- Housing uses our high reliability contact
- High temperature headers
- Passive latching system

## TECHNICAL DATA

### PHYSICAL

- Housing: Black thermoplastic
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: Gold or tin-lead over 1.27 µm (50 µ") nickel

### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance:  $1 \times 10^5$  MΩ min.
- Dielectric withstanding voltage: 1000 V rms

### MECHANICAL PERFORMANCE

- Contact retention to housing: 17.76 N min.

### OPERATING TEMPERATURE RANGE

- -40°C to +125°C



### PACKAGING

- Bags

### PROCESSING INFORMATION

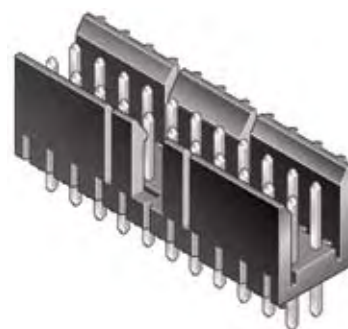
- Compatible with wave soldering processes

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-067, BUS-12-075
- Application specification: TA-531

### RoHS INFORMATION

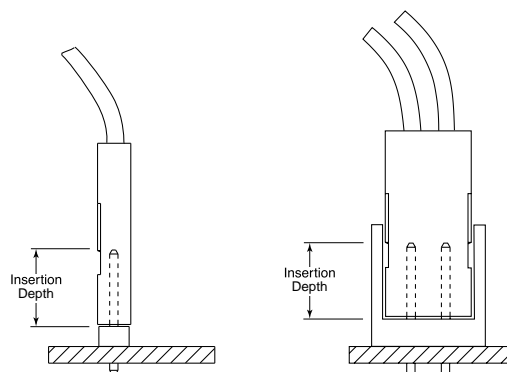
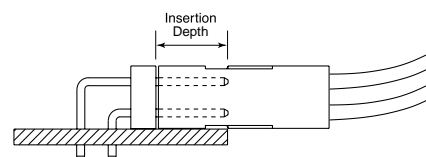
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



## MATING DATA

- PV™ Crimp-to-wire contacts 38
- PV™ Crimp-to-wire housings 40

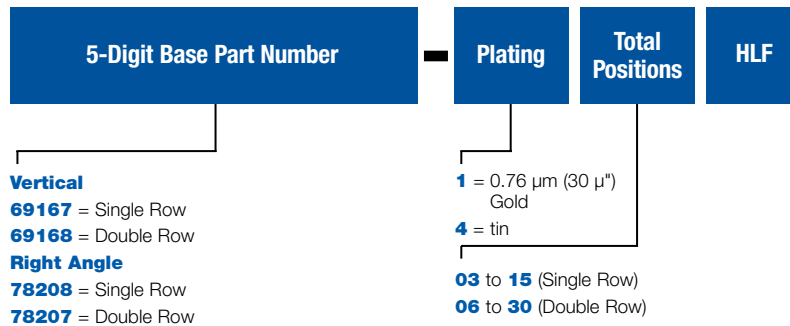
## TYPICAL APPLICATIONS



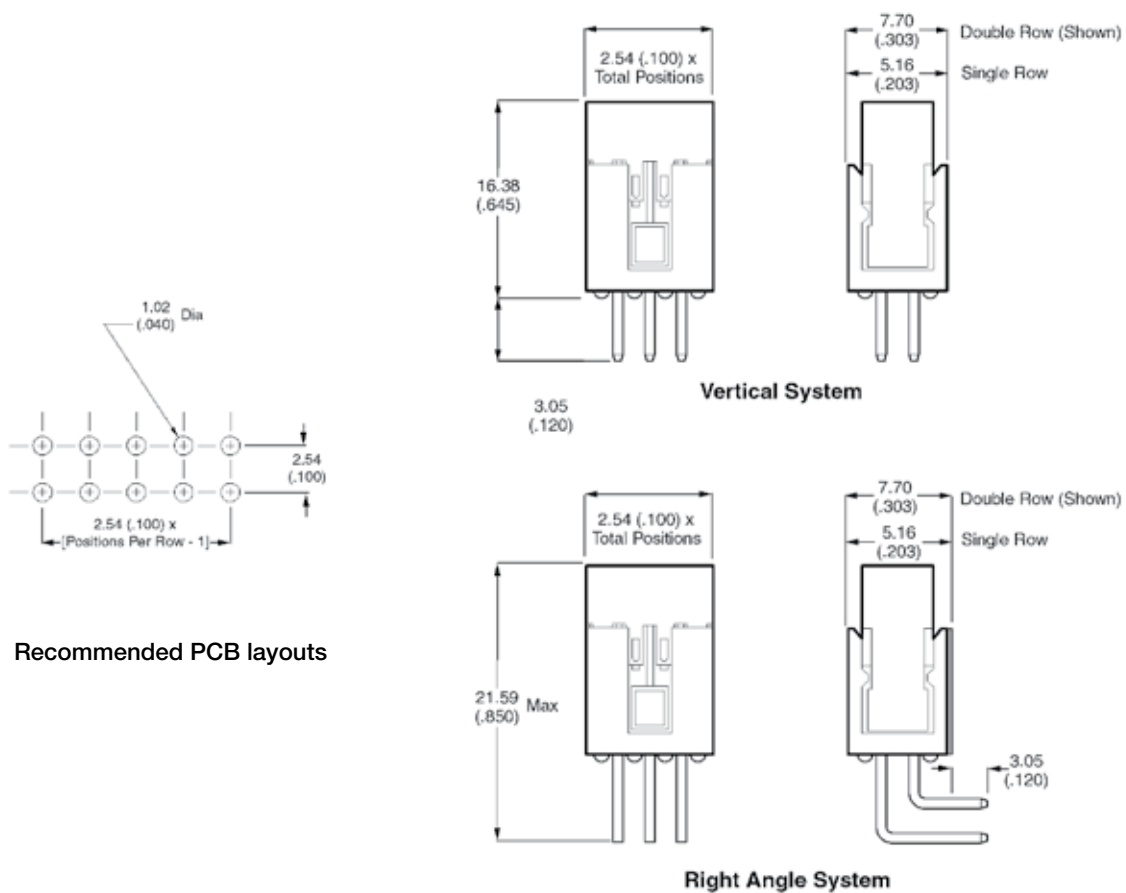
## PV™ Shrouded Headers

2.54 mm (.100")

### PART NUMBERS



### PRODUCT



Dimension in mm

## FEATURES

- High reliability contacts for shock and vibration applications
- Three spring thickness options meet application specific insertion, withdrawal, and normal force requirements
- Leaf spring design provides constant retention force after repeated cycles

## TECHNICAL DATA

### PHYSICAL

- Contact: Brass body with beryllium-copper spring
- Pin: Brass
- Plating: Gold or tin over 1.27  $\mu\text{m}$  (50  $\mu\text{in}$ ) nickel

### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous depending on wire size
- Insulation resistance: 5000  $\text{m}\Omega$  min.
- Contact resistance after environmental test: 15  $\Omega$  m max. – Contact
- Dielectric withstanding voltage: 1000 V rms

### MECHANICAL PERFORMANCE

- Mating cycles (durability): 1000 - Gold
- Insertion force per gold contact:
  - 2.35 N (240 gf) - Standard spring
  - 4.41 N (450 gf) - High spring
  - 10.79 N (1100 gf) - Ultra high spring



### OPERATING TEMPERATURE RANGE

- -65°C to +125°C

### PACKAGING

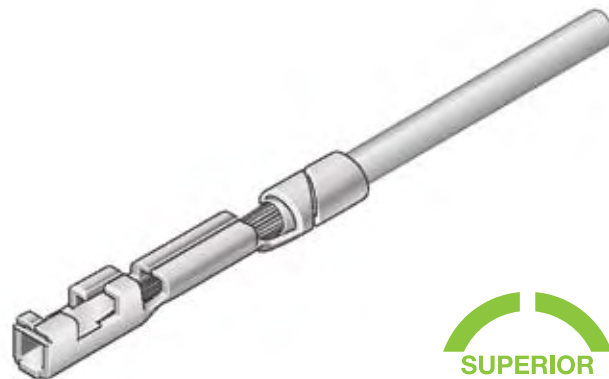
- 1 Reels
- Boxes - Loose piece

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-067 Contact
- Application specification: TA-75, TA-146 - Contact, TA-295, TA-228 and TA-302

### RoHS INFORMATION

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



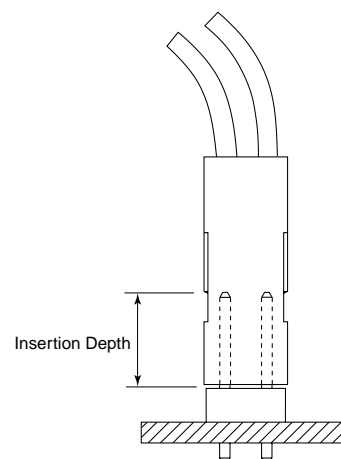
## MATING DATA

- Continuous unshrouded headers 12
- Unshrouded vertical headers 8, 10
- Unshrouded right angle headers 14, 16

## INSERTION DEPTH

- Discrete Wire: 3.5 mm min. to 5.3 mm max.  
[provides .381 mm wipe]
- Crimp-to-Wire Housing: 4.2 mm min. to 5.3 mm max.  
[provides .381 mm (.015") wipe in housing]

## TYPICAL APPLICATIONS





# PV™ Crimp-to-Wire Contacts

2.54 mm (.100")

## PART NUMBERS

### HOW TO SELECT THE RIGHT CONTACT

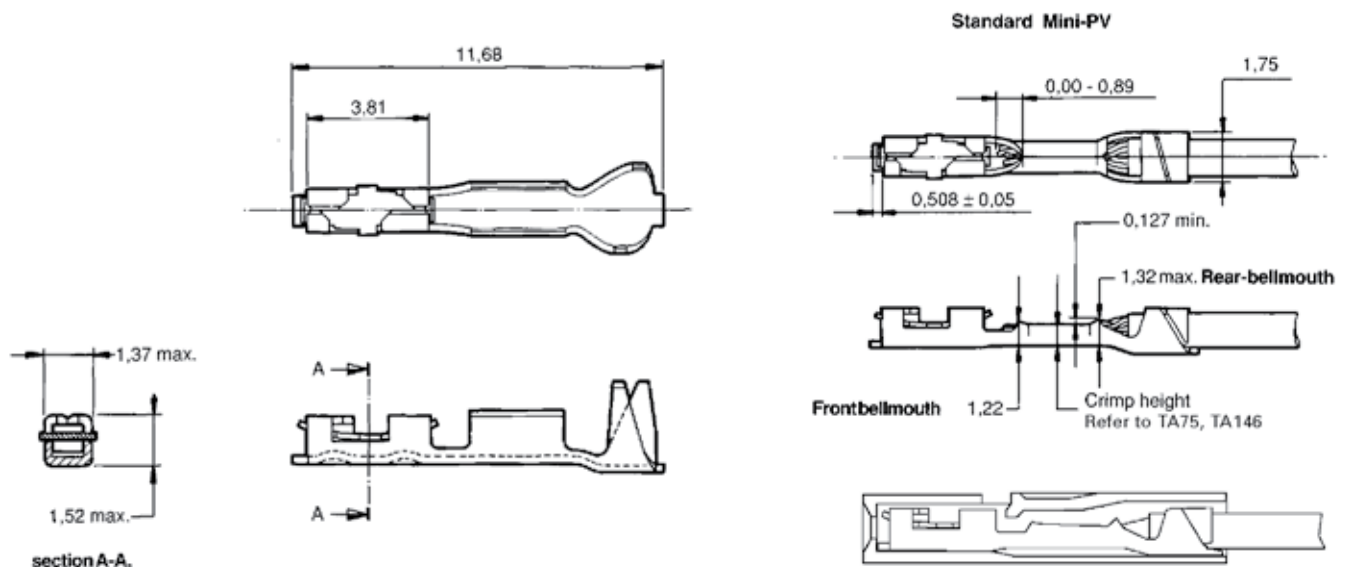
- Step 1** Select Application
- Step 2** Select Spring Force
- Step 3** Select Wire Size



Application	Spring Force
<b>Housing</b>	
<b>40-72</b> Contacts Per Housing	Standard
<b>10-50</b> Contacts Per Housing	High
<b>2-20</b> Contacts Per Housing	Ultra High
<b>Discrete Contact</b>	Ultra High

Wire Size (AWG)	Application Spring Force	Part Number
<b>18, 20</b>	Standard	48276-002LF
<b>or two 22</b>	High	48047-002LF
<b>or two 24</b>	Ultra High	47566-002LF
<b>22, 24, 26</b>	Standard	47457-002LF
<b>or two 26</b>	High	47439-002LF
<b>or two 28</b>	Ultra High	47565-002LF
<b>28, 30, 32</b>	Standard	48048-002LF
<b>or two 30</b>	High	47437-002LF
<b>or two 32</b>	Ultra High	47564-002LF

## PRODUCT



## FEATURES

- Lowest profile housing in the industry
- Designed for use with our high reliability PV™ Contact

## TECHNICAL DATA

### PHYSICAL

- Housing: Black thermoplastic
- Flammability rating: UL 94 V-0

### ELECTRICAL PERFORMANCE

- Insulation resistance:  $1 \times 10^5$  M $\Omega$  min.
- Dielectric withstanding voltage: 1000 V rms

### MECHANICAL PERFORMANCE

- Contact retention to housing: 17.76 N min.

### OPERATING TEMPERATURE RANGE

- 40°C to +125°C

### PACKAGING

- Bags

### PROCESSING INFORMATION

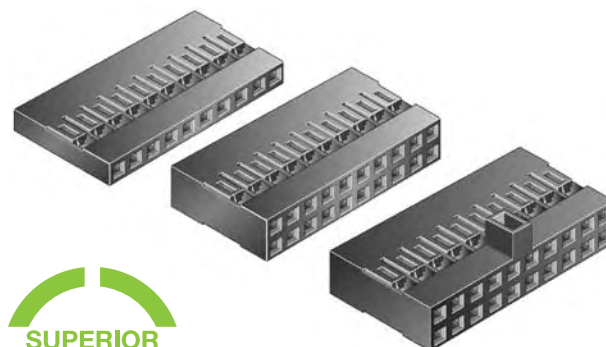
- Compatible with wave soldering processes

### REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- Aroduct specification: BUS-12-067
- Application specification: TA-531

### RoHS INFORMATION

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



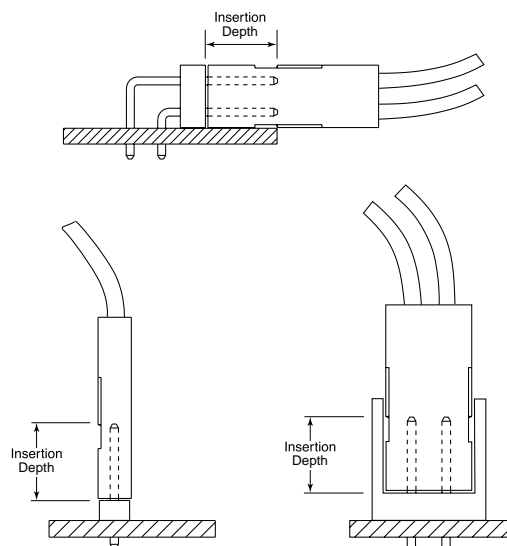
## MATING DATA

- |                                |        |
|--------------------------------|--------|
| Continuous unshrouded headers  | 12     |
| Unshrouded vertical headers    | 8, 10  |
| Unshrouded right angle headers | 14, 16 |

## INSERTION DEPTH

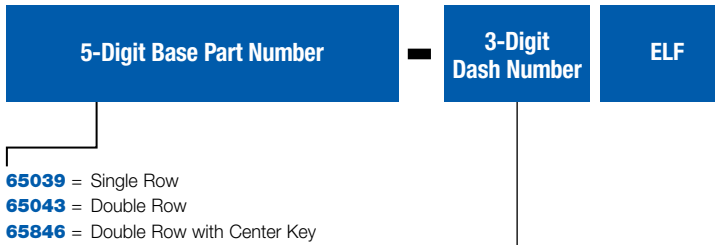
- 4.2 mm (.165") min. to 5.3 mm (.210") max.  
[provides .381 mm (.015") wipe in housing].

## TYPICAL APPLICATIONS



# PV™ Crimp-to-Wire Housings

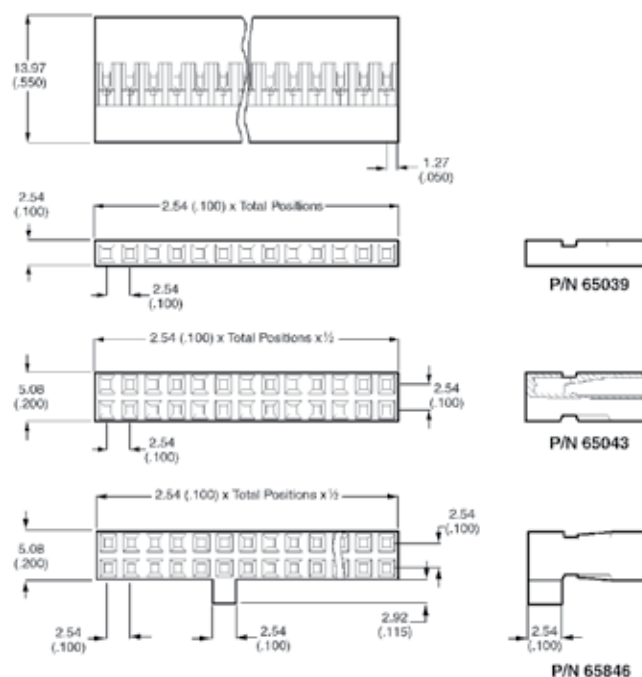
## PART NUMBERS



Single Row			Double Row			Single Row			Double Row		
Total Positions	65039	78211	Total Positions	65043	65846	Total Positions	65039	78211	Total Positions	65043	65846
			4	-035		19	-018		40	-017	-024
2	-035		6	-034		20	-017		42	-016	-025
3	-034	-003	8	-033		21	-016		44	-015	-004
4	-033	-004	10	-032		22	-015		46	-014	-026
5	-032	-005	12	-031	-017	23	-014		48	-013	-027
6	-031	-006	14	-030		24	-013		50	-012	
7	-030	-007	16	-029		25	-012		52	-011	-028
8	-029	-008	18	-028		26	-011		54	-010	
9	-028	-009	20	-027		27	-010		56	-009	-029
10	-027	-010	22	-026	-018	28	-009		58	-008	-030
11	-026	-011	24	-025		29	-008		60	-007	-013
12	-025	-012	26	-024	-019	30	-007		62	-006	-031
13	-024	-013	28	-023	-020	31	-006		64	-005	-009
14	-023	-014	30	-022		32	-005		66	-004	-032
15	-022	-015	32	-021	-021	33	-004		68	-003	-033
16	-021		34	-020		34	-003		70	-002	-034
17	-020		36	-019	-023	35	-002		72	-001	-035
18	-019		38	-018		36	-001				

**2.54 mm (.100")**

## PRODUCT



## FEATURES

- Recessed pins assure proper alignment and eliminate damage during mating
- End windows for latching with IDC receptacle

## TECHNICAL DATA

### PHYSICAL

- Housing: Glass filled, thermoplastic polyester, blue
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27  $\mu\text{m}$  (50 $\mu$ "") nickel

### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance:  $1 \times 10^5 \text{ M}\Omega \text{ min.}$
- Dielectric withstanding voltage: 500 V rms min.

### MECHANICAL PERFORMANCE

- Pin retention to housing: 20 N min.

### OPERATING TEMPERATURE RANGE

- -65°C to +105°C



### PACKAGING

- Tubes

### PROCESSING INFORMATION

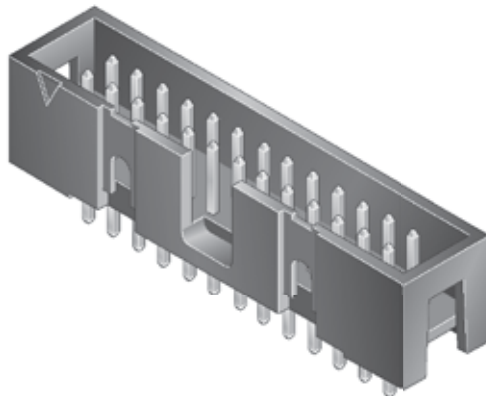
- Compatible with wave soldering processes

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-082

### RoHS INFORMATION

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

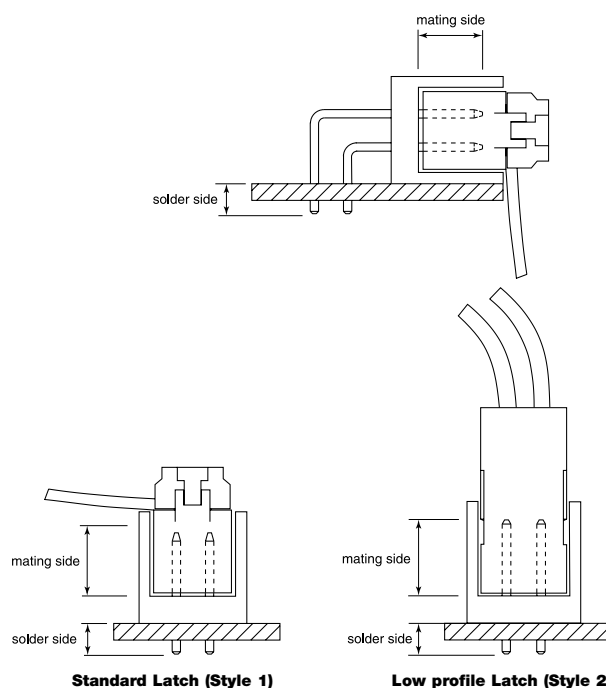


## MATING DATA

- Quickie™ IDC receptacles

48

## TYPICAL APPLICATIONS



# Quickie™ Shrouded Headers, Low Profile

2.54 mm (.100")

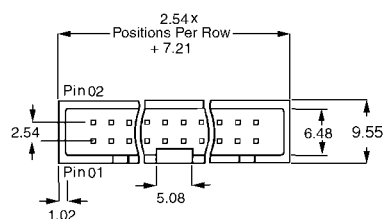
## PART NUMBERS

5-Digit Base Part Number	Plating	Total Positions	LF
<b>Through mount</b> <b>75869</b> = Vertical <b>75867</b> = Right angle		<b>30</b> = 4 pos. <b>31</b> = 6 pos. <b>32</b> = 8 pos. <b>01</b> = 10 pos. <b>02</b> = 14 pos. <b>03</b> = 16 pos. <b>04</b> = 20 pos. <b>05</b> = 26 pos. <b>06</b> = 34 pos. <b>07</b> = 40 pos. <b>08</b> = 50 pos. <b>09</b> = 60 pos. <b>10</b> = 64 pos.	

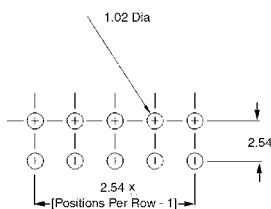
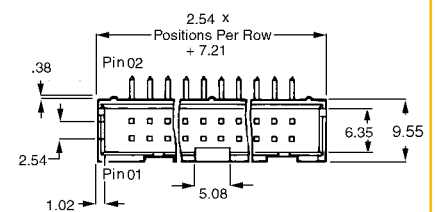
1 = 0.76 µm (30µ") gold/GXT on mating area, tin on solder side

## PRODUCT

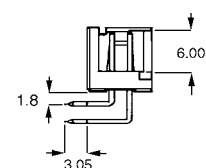
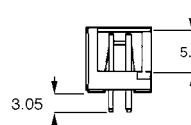
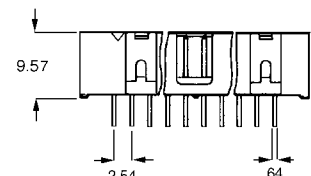
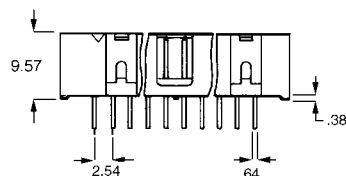
Vertical



Right Angle



### Recommended PCB layouts



Dimension in mm

## FEATURES

- High temperature housing
- Compatible with IR reflow soldering processes
- Tape-and-Reel packaging for automatic pick-and-place

## TECHNICAL DATA

### PHYSICAL

- Housing: Glass filled, high temperature thermoplastic polyester, black
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27 µm (50µ") nickel



### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance: 1x 10<sup>5</sup> MΩ min.
- Dielectric withstanding voltage: 500 V rms min.

### MECHANICAL PERFORMANCE

- Pin retention to housing: 20 N min.

### OPERATING TEMPERATURE RANGE

- -65°C to +125°C



### PACKAGING

- SMT: Tape-and-reel with pick-up cap
- PiP, right angle: Tube without pick-up cap
- PiP, straight: Tape and reel

### PROCESSING INFORMATION

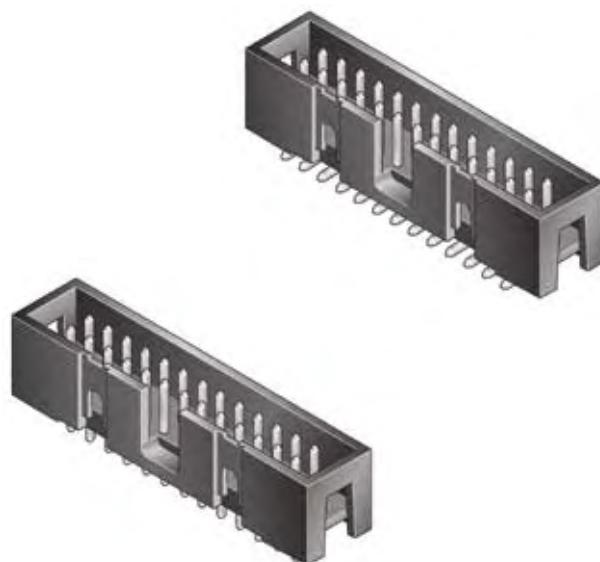
- Compatible with wave, vapor-phase, and IR reflow soldering processes

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-055

### RoHS INFORMATION

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

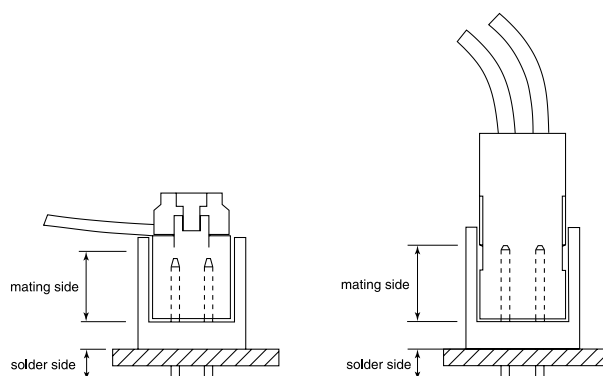


## MATING DATA

- Quickie™ IDC receptacles

48

## TYPICAL APPLICATIONS

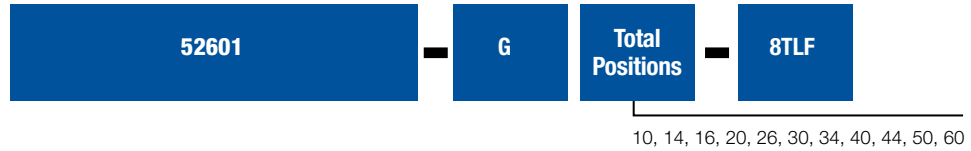


# Quickie™ Shrouded Headers, Low Profile, SMT, Pin-in-Paste

2.54 mm (.100")

## PART NUMBERS

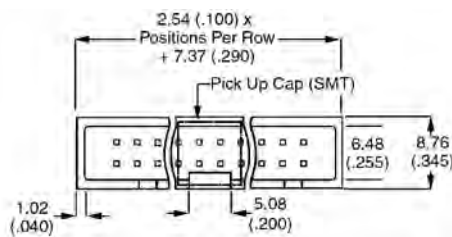
SMT (Surface Mount)



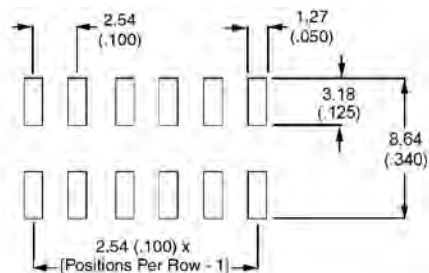
PiP (Pin-in-Paste)



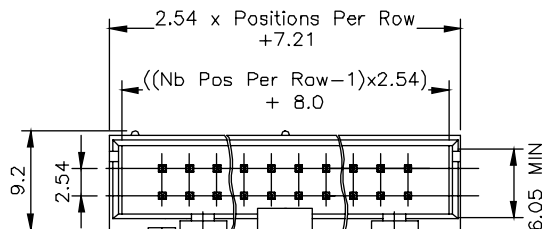
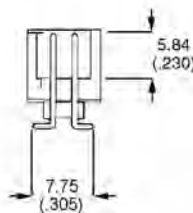
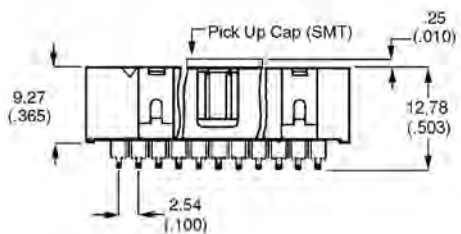
## PRODUCT



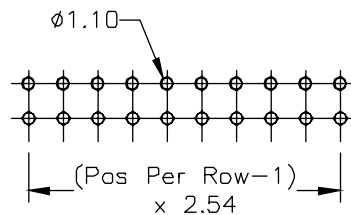
52601



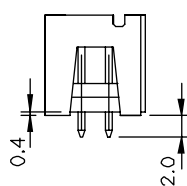
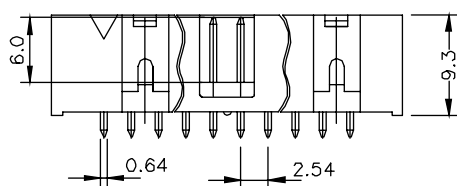
Recommended PCB layouts



10056844



Recommended PCB layouts



Dimension in mm

## FEATURES

- Selective plating
- Recessed pins assure proper alignment and eliminate damage during mating

## TECHNICAL DATA

### PHYSICAL

- Housing: Glass filled, high temperature thermoplastic polyester, grey
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Gold/GXT over 1.27  $\mu\text{m}$  (50 $\mu$ ) nickel



### ELECTRICAL PERFORMANCE

- Current rating: 3 A continuous
- Insulation resistance:  $1 \times 10^5 \text{ M}\Omega \text{ min.}$
- Dielectric withstanding voltage: 500 V rms min.

### MECHANICAL PERFORMANCE

- Pin retention to housing: 20 N min.

### OPERATING TEMPERATURE RANGE

- -65°C to +105°C

### PACKAGING

- Tubes

### PROCESSING INFORMATION

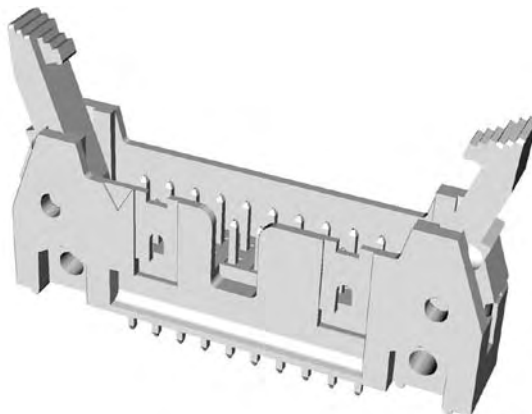
- Compatible with wave soldering processes

### REFERENCE INFORMATION

- File no. E66906
- File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-082

### RoHS INFORMATION

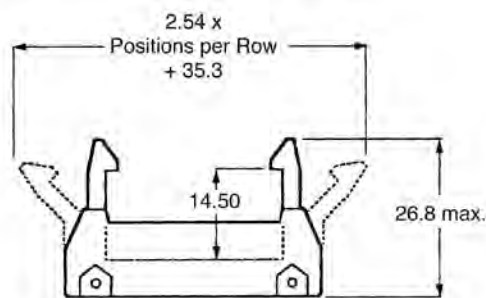
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



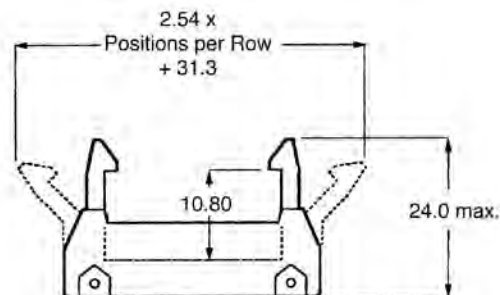
## MATING DATA

- Quickie™ IDC receptacles 48

## TYPICAL APPLICATIONS



Standard Latch (Style 1)



Low profile Latch (Style 2)



# Quickie™ Shrouded Headers, Eject Latch

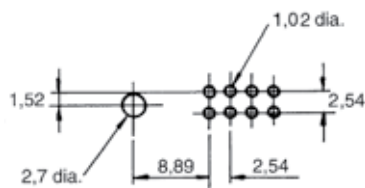
2.54 mm (.100")

## PART NUMBERS

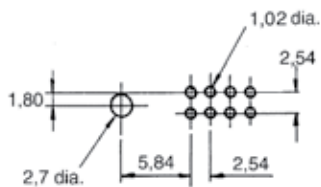
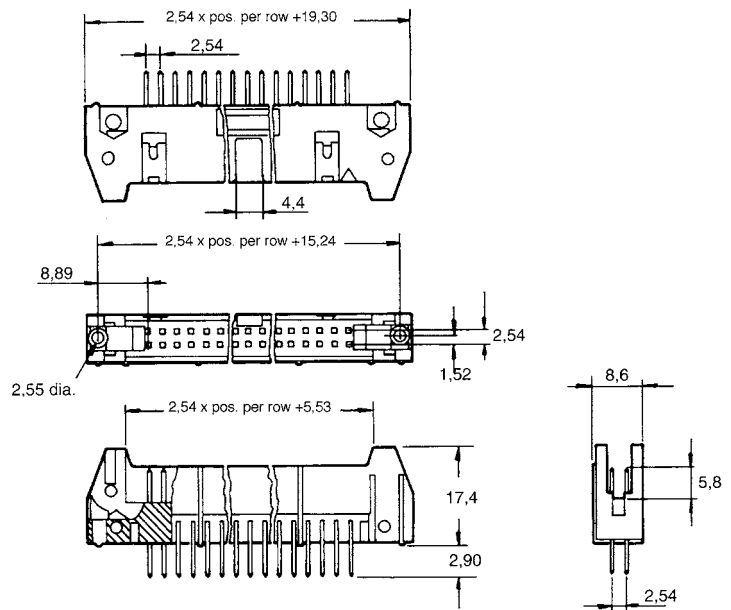
5-Digit Base Part Number	Latch Style	Total Positions	LF
<b>Through mount</b> <b>71918</b> = Vertical <b>71922</b> = Right angle <b>Plating</b> = 0.76 µm (30µ") gold/GXT on mating area, tin on solder side	<b>1</b> = Standard (mates with IDC Receptacle with Strain Relief) <b>2</b> = Low Profile (mates with IDC Receptacle without Strain Relief)	<b>06, 08, 10, 14, 16, 18, 20, 26, 30, 34, 40, 44, 50, 60, 64</b>	

**71918 - 1XXLF**  
**71922 - 1XXLF**  
**CORE RANGE**  
 XX = 06, 08, 10, 16, 20

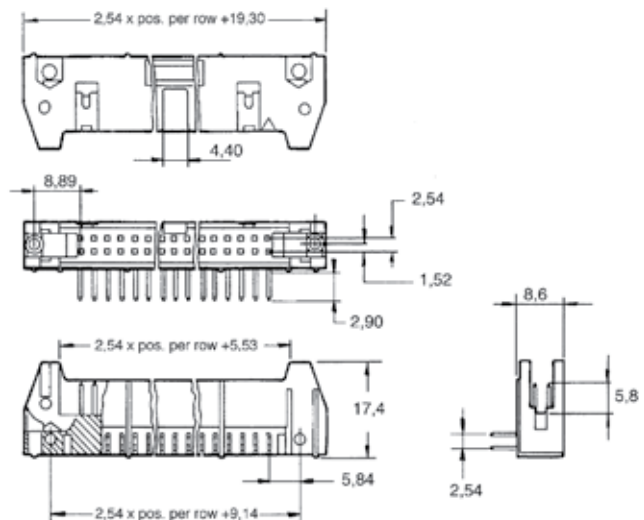
## PRODUCT



Vertical



Right Angle



Recommended PCB layouts

Dimension in mm

## TECHNICAL DATA

### PHYSICAL

- Housing: Grey thermoplastic
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze
- Plating: 0.76  $\mu\text{m}$  (30 $\mu''$ ) Gold over 1.27  $\mu\text{m}$  (50  $\mu''$ ) nickel

### ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance:  $1 \times 10^5 \text{ M}\Omega$  min.
- Contact resistance: 15 m $\Omega$  max.
- Dielectric withstanding voltage: 1000 V min. rms (sea level)

### MECHANICAL PERFORMANCE

- Mating cycles (durability): 100

### OPERATING TEMPERATURE RANGE

- -65°C to +105°C



### PACKAGING

- Tubes

### PROCESSING INFORMATION

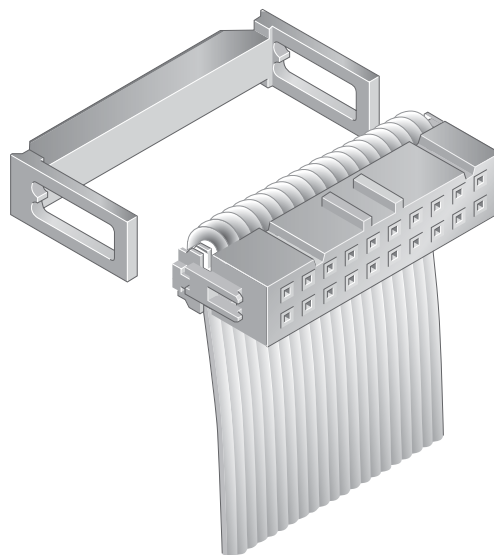
- Compatible with wave soldering processes

### REFERENCE INFORMATION

-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-095

### RoHS INFORMATION

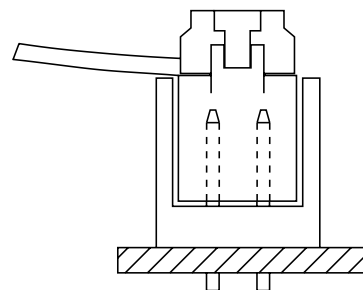
- This product is RoHS compatible according to the European Union Directive 2002/95/IEC



## MATING DATA

- BergStik® unshrouded vertical headers 8, 10, 12
- Quickie® shrouded low profile headers 42, 44
- Quickie® shrouded eject latch headers 46

## TYPICAL APPLICATIONS

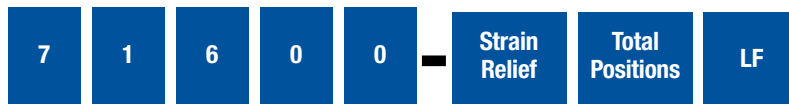


Low profile Latch (Style 2)

# Quickie™ IDC Receptacle

2.54 mm (.100")

## PART NUMBERS



Note: 4 position available without strain relief only

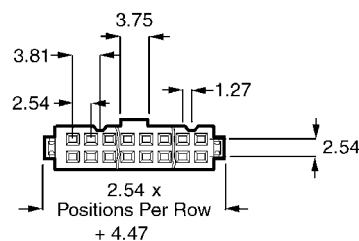
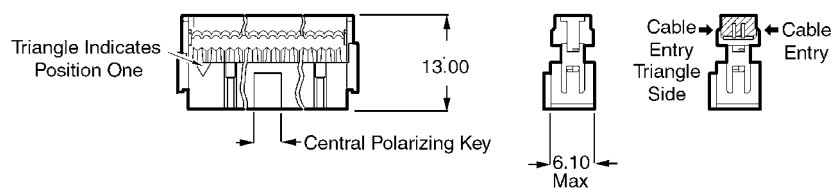
04, 06, 08, 10, 14, 16, 20, 26, 34, 40, 50, 60, 64

- 0 = Standard (Mates with Shrouded Eject Latch Header Latch 1)
- 1 = None (Mates with Shrouded Eject Latch Header Latch 2)
- 6 = Latching (Mates with Low Profile Headers)

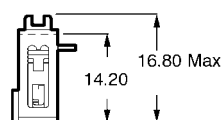
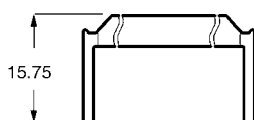
71600 - 0XXLF  
XX = 04, 06, 08, 10, 16, 20

**CORE RANGE**

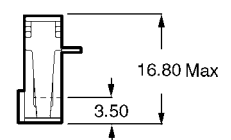
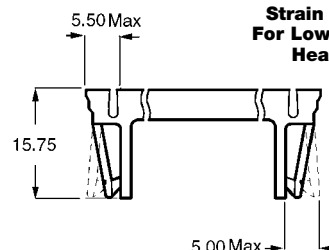
## PRODUCT



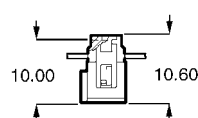
**0**  
Standard Strain Relief



**6**  
Latching Strain Relief For Low Profile Header



**1**  
Without Strain Relief



Dimension in mm

## FEATURES

- Ideal for daisy chain applications
- Single piece design provides one of the lowest applied costs in the industry

## TECHNICAL DATA

### PHYSICAL

- Housing: Blue thermoplastic
- Flammability rating: UL 94 V-0
- Pin: Phosphor-bronze
- Plating: Tin over 1.27  $\mu\text{m}$  (50 $\mu$ " ) nickel

### ELECTRICAL PERFORMANCE

- Current rating: 1 A continuous
- Insulation resistance:  $1 \times 10^5 \text{ M}\Omega$  min.
- Contact resistance: 15 m $\Omega$  max.
- Dielectric withstanding voltage: 1000 V min. rms (sea level)

### OPERATING TEMPERATURE RANGE

- -65°C to +125°C



### PACKAGING

- Tubes

### PROCESSING INFORMATION

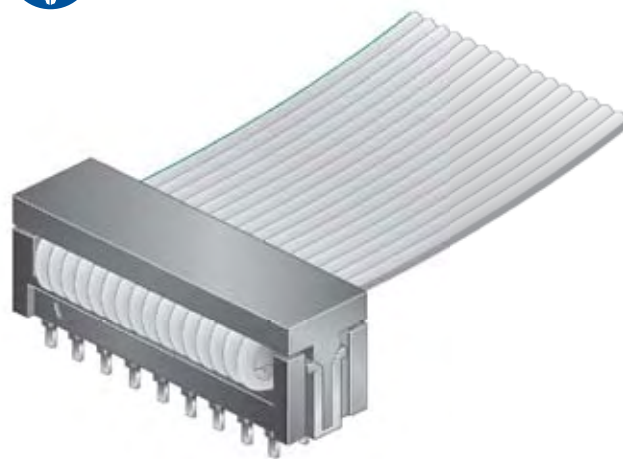
- Compatible with wave and vapor phase soldering processes — Low temperature

### REFERENCE INFORMATION

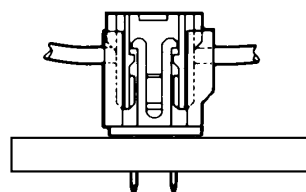
-  File no. E66906
-  File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-095

### RoHS INFORMATION

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



## TYPICAL APPLICATIONS



# Quickie™ IDC PCB Connector

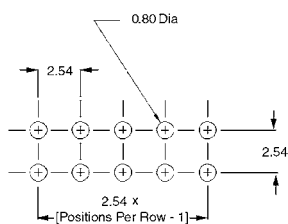
2.54 mm (.100")

## PART NUMBERS

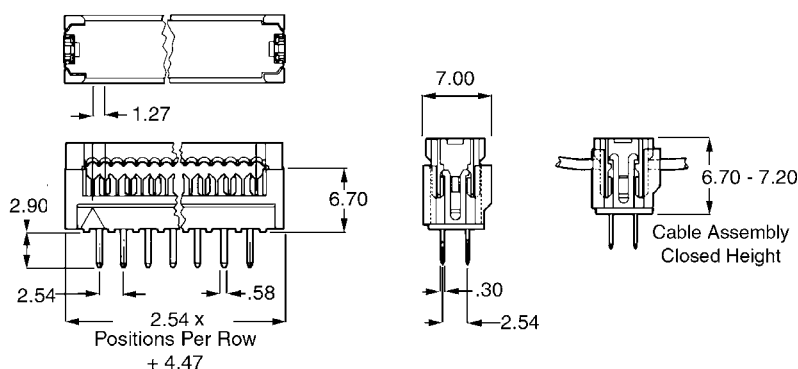


<b>06</b> = 6 pos.	<b>18</b> = 18 pos.	<b>34</b> = 34 pos.
<b>08</b> = 8 pos.	<b>20</b> = 20 pos.	<b>40</b> = 40 pos.
<b>10</b> = 10 pos.	<b>24</b> = 24 pos.	<b>50</b> = 50 pos.
<b>14</b> = 14 pos.	<b>26</b> = 26 pos.	<b>60</b> = 60 pos.
<b>16</b> = 16 pos.	<b>30</b> = 30 pos.	<b>64</b> = 64 pos.

## PRODUCT



Recommended PCB layouts



Dimension in mm

For more information about e-catalog or FCI  
sales offices, headquarters, agents and local distributors,  
visit [www.fci.com](http://www.fci.com)

