

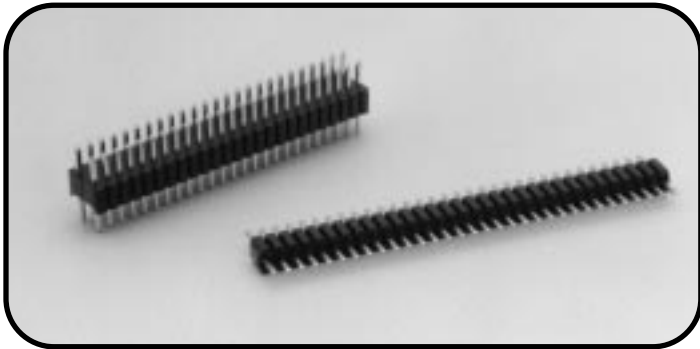
# Headers

5210, 5220 Series - 0.05 (1.27 mm) Centers, Single and Dual Row	7-2
5S210, 5S220 Series - 0.05 (1.27 mm) Centers, Surface Mount, Single and Dual Row	7-3
5410, 5420 Series - 0.05 (1.27 mm) Centers Single and Dual Row	7-4
5S410, 5S420 Series - 0.05 (1.27 mm) Centers, Surface Mount, Single and Dual Row	7-5
2M210, 2M220 Series - 0.079 (2 mm) Centers Single and Dual Row	7-6
2MS220 Series - 0.079 (2mm) Centers, Surface Mount, Dual Row	7-7
2M21013S, 2M22013S Series - 0.079 (2mm) Centers Single and Dual Row	7-8
2M410, 2M420 Series - 0.079 (2 mm) Centers Single and Dual Row	7-9
2MS420 Series - 0.079 (2 mm) Surface Mount, Dual Row, 6 to 60 Positions	7-10
210, 220, 230 Series - 0.1 (2.54 mm) Centers Single, Dual and Three Row	7-11
21013S, 220BS Series - 0.1 (2.54 mm) Centers Single and Dual Row	7-13
410, 420 Series - 0.1 (2.54 mm.) Centers Single and Dual Row	7-14
EH Series - 0.1 (2.54 mm.) Centers Dual Row	7-15
SH Series - 0.1 (2.54 mm) Centers Dual Row	7-16
320 Series - 0.1 (2.54 mm) Centers Dual Row	7-17
S100, S200, S300 Series - 0.1 (2.54 mm) Centers	7-18
S9 Series - 0.1 (2.54 mm) Centers	7-19



## HEADERS

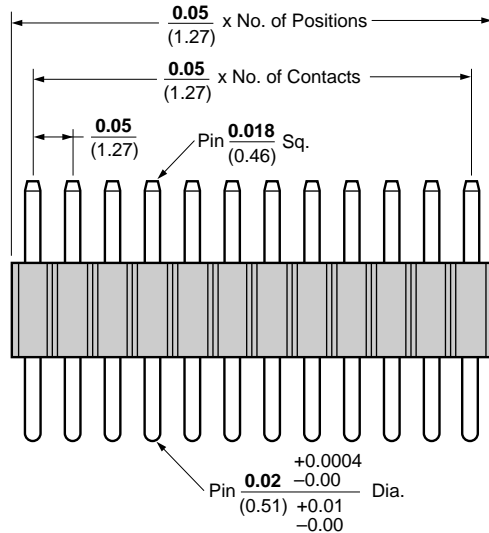
# 5210, 5220 Series 0.05 (1.27mm) Centers, Single and Dual Row



## FEATURES

- Stack headers end-to-end or side-to-side without loss of positions
- Easy breakaway to required size
- Tin or three types of gold plating options
- Single row, 1-32 positions
- Dual row, 2-80 positions

## DIMENSIONS — SINGLE AND DUAL ROW



## MAXCONN - (Back to Table of Contents)

## PERFORMANCE SPECIFICATIONS

### Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** 1 – Tin: 100 microinch tin over 70 microinch copper  
 Gold: 2 – 10 microinch gold over 50 microinch nickel  
 3 – 15 microinch gold over 50 microinch nickel  
 4 – 30 microinch gold over 50 microinch nickel

### Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

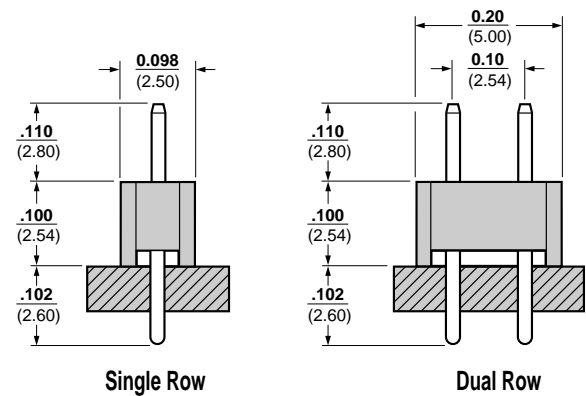
**Dielectric Withstanding Voltage:** 1000Vrms

**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

### Mechanical Characteristics

**Pin Push-Out Force:** 3 lbs



## HOW TO ORDER

**5210**   **V** — **B**   **40** — **2**

**Series**  
 5210- Single Row  
 5220- Dual Row

**Pin Type**  
 V – Vertical Pins

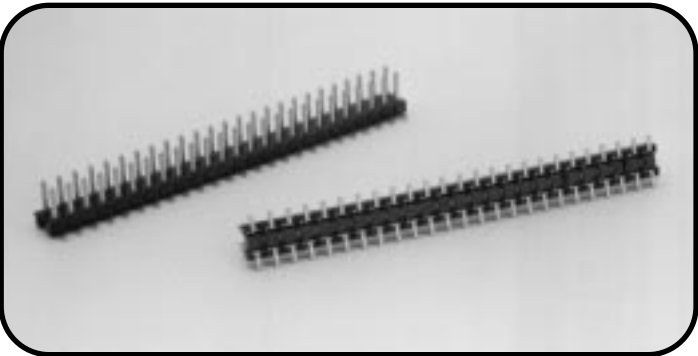
**Material**  
 Brass

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

**Number of Contacts Per Row**  
 1-32, Single Row  
 2-40, Dual Row

HEADERS

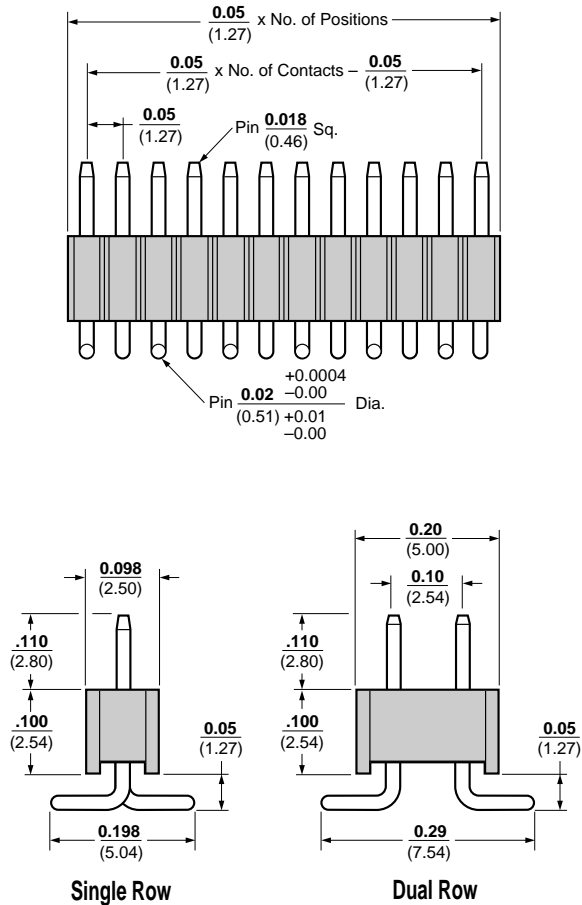
5S210, 5S220 Series  
0.05 (1.27mm) Centers, Surface  
Mount, Single and Dual Row



FEATURES

- Ideal for board stacking applications
- Notches for easy breakaway
- Single row, 1 to 32 positions
- Dual row, 2 to 80 positions

DIMENSIONS – SINGLE AND DUAL ROW



MAXCONN - [\(Back to Table of Contents\)](#)

Performance Specifications  
Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** 1 – Tin: 100 microinch tin over 70 microinch copper  
Gold: 2 – 10 microinch gold over 50 microinch nickel  
3 – 15 microinch gold over 50 microinch nickel  
4 – 30 microinch gold over 50 microinch nickel

Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000Vrms

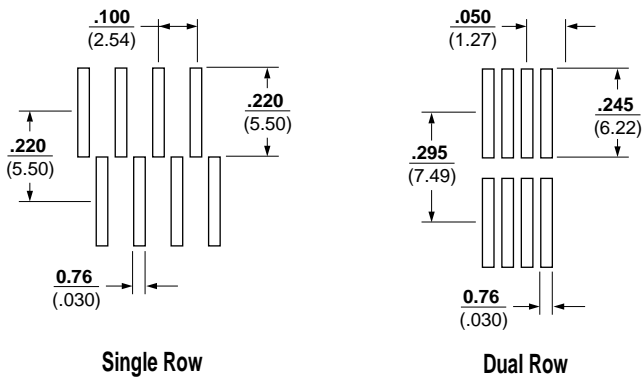
**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

Mechanical Characteristics

**Pin Push-Out Force:** 3 lbs

PCB LAYOUT — RECOMMENDED



How To ORDER

5S210 - 32 - V - 2

Series  
5S210 – Single row  
5S220 – Dual row

Number of Contacts  
Per Row  
1 to 32 Single Row  
2 to 40 Dual Row

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

**Connector Type**  
V – Vertical

## HEADERS

MAXCONN - [\(Back to Table of Contents\)](#)

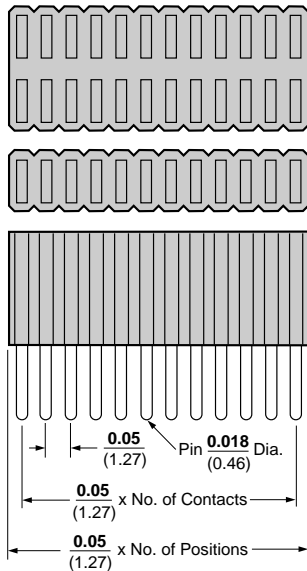
# 5410, 5420 Series 0.05 (1.27mm) Centers Single and Dual Row



## FEATURES

- Low profile and high density is suitable for devices which require small and light internal parts
- High reliability contact structure provides normal-force after repeated cycles
- Mating with 1.27mm pitch 0.46mm square pin headers
- Single row 2 to 50 positions
- Dual row 4 to 100 positions

## DIMENSIONS – SINGLE AND DUAL ROW



## Performance Specifications Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Phosphor bronze

**Contact Finish:**

- 1 – Tin: 100 microinch tin over 70 microinch copper
- 2 – 10 microinch gold over 50 microinch nickel
- 3 – 15 microinch gold over 50 microinch nickel
- 4 – 30 microinch gold over 50 microinch nickel

## Electrical Characteristics

**Contact Current Rating:** 3 amps

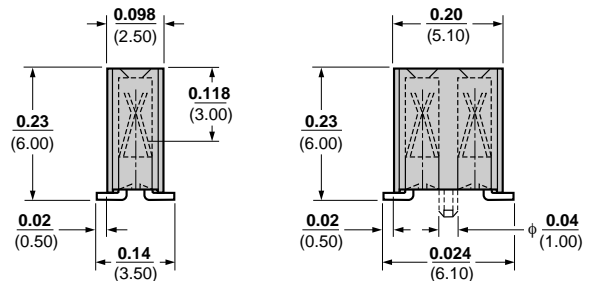
**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000 Vdc minimum

**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

**Pin Push-Out Force:** 3 lbs



Single Row

Dual Row

## How To ORDER

Series **5410 - 40 - 2**

5410 Single Row  
5420 Dual Row

Number of Contacts  
Per Row

5410 – 2 to 50 Single Row  
5420 – 4 to 100 Dual Row

Code	Plating Options
1	100 microinch tin
2	10 microinch gold (Standard)
3	15 microinch gold
4	30 microinch gold

HEADERS

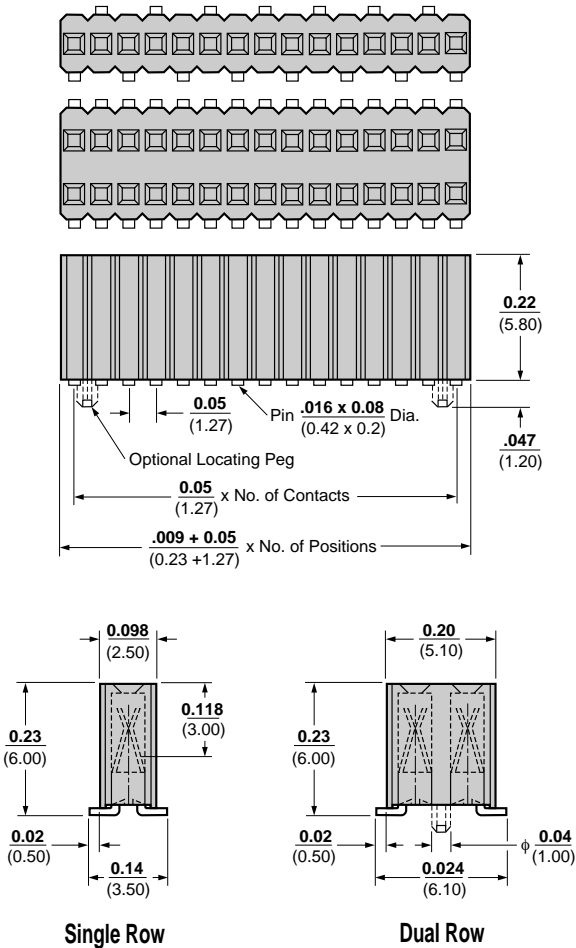
5S410, 5S420 Series  
0.05 (1.27mm) Centers, Surface  
Mount, Single and Dual Row



FEATURES

- Low profile: 6.0mm height
- Dual beam phosphor bronze contacts
- Designed for board to board small spacing interconnection
- Mating with 1.27mm pitch 0.46mm square headers
- Single row – 4 to 50 positions
- Dual row – 8 to 60 positions

DIMENSIONS – SINGLE AND DUAL ROW



MAXCONN - (Back to Table of Contents)

Performance Specifications  
Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Phosphor bronze

**Contact Finish:** 1 – Tin: 100 microinch tin over 70 microinch copper  
Gold: 2 – 10 microinch gold over 50 microinch nickel  
3 – 15 microinch gold over 50 microinch nickel  
4 – 30 microinch gold over 50 microinch nickel

Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000 Vdc minimum

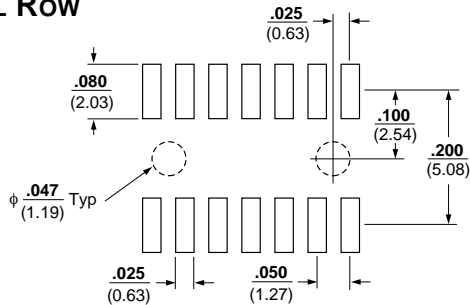
**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

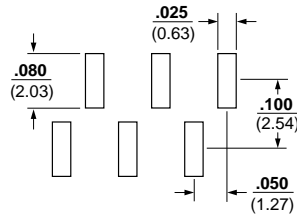
**Pin Push-Out Force:** 3 lbs

PCB LAYOUT – RECOMMENDED

DUAL ROW



SINGLE ROW



How To ORDER

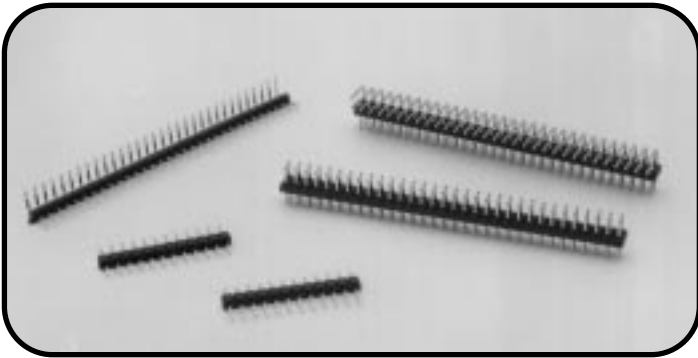
Series **5S410 - 40 - 2**  
5S410 Single Row  
5S420 Dual Row  
Blank – Without Peg  
L – With Peg  
Number of Contacts  
Per Row  
5410 – 4 to 50 Single Row  
5420 – 8 to 60 Dual Row

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

# 2M210, 2M220 Series

## 0.079 (2mm) Centers

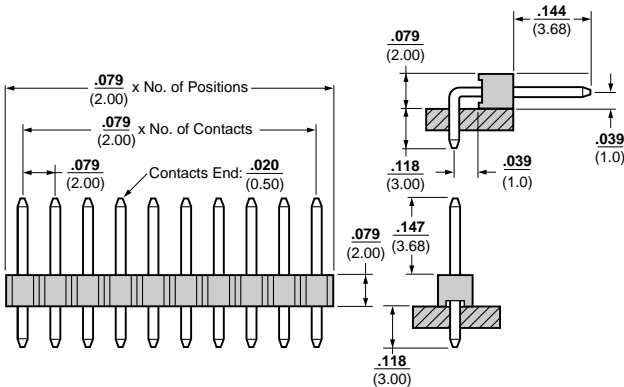
### Single and Dual Row



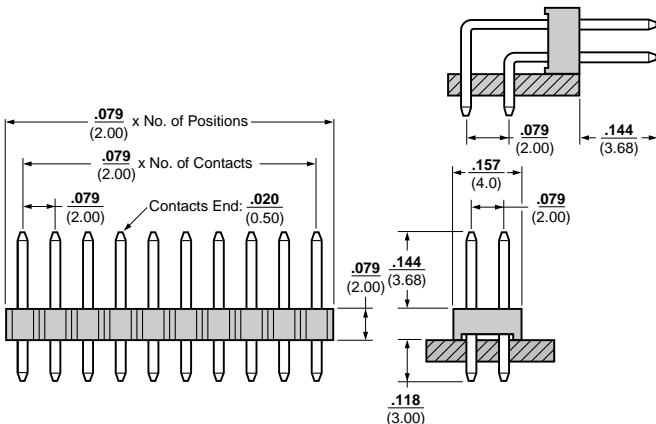
#### FEATURES

- 0.020 (0.50mm) square contact post
- 0.079 (2mm) centers between post spacing
- Stack headers end to end or side to side without loss of positions
- Mates with 0.079 x 0.079 grid female connector
- Single row from 1 to 40 positions
- Dual row from 2 to 40 positions
- Any pin can be void of gold plating option
- Tin or three types of gold plating options
- Any pin length available to 3.5 inches maximum

#### DIMENSIONS — SINGLE ROW



#### DIMENSIONS — DUAL ROW



#### Performance Specifications

##### Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper

Gold: (A) 10 microinch gold over 50 microinch nickel

(B) 15 microinch gold over 50 microinch nickel

(C) 30 microinch gold over 50 microinch nickel

##### Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000Vrms

**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to +125° C

##### Mechanical Characteristics

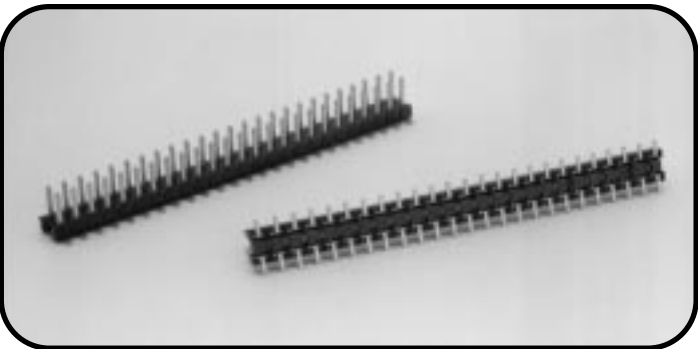
**Pin Push-Out Force:** 3 lbs

#### HOW TO ORDER

<b>2M210 V - B 10 A - 2</b>			
Series	2M210 – Single row 2M220 – Dual row		
Type of Pins	V – Vertical pins R – Right angle pins		
B – Brass			
Number of Contacts per Row	2M210 – 40 maximum 2M220 – 40 per row		
		Code	Plating Options
		1	100 microinch tin
		2	10 microinch gold
		3	15 microinch gold
		4	30 microinch gold
Configuration	Code	Dimensions	
		A	B
Vertical	A	0.118	0.145
Right Angle	C	0.149	0.295
Vertical/Rt Angle	X	Any pin length available to 3.5 inches maximum (upon request)	

MALE HEADERS

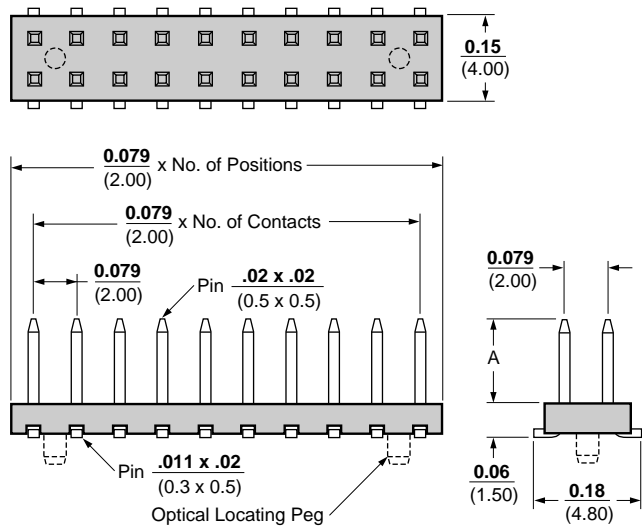
2MS220 Series  
0.079 (2mm) Centers,  
Surface Mount, Dual Row



FEATURES

- 0.02 (0.50mm) square contact post
- 0.079 (2mm) centers between post spacing
- Stack headers end to end or side to side without loss of positions
- Mates with 0.079 x 0.079 grid female connector
- Dual row from 4 to 50 positions per row
- Any pin can be void of polarization
- Tin or three types of gold plating options
- Any pin length to 3.5 inches maximum

DIMENSIONS



MAXCONN - (Back to Table of Contents)

PERFORMANCE SPECIFICATIONS

Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper

Gold: (A) 10 microinch gold over 50 microinch copper

(B) 15 microinch gold over 50 microinch copper

(C) 30 microinch gold over 50 microinch copper

Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000Vrms

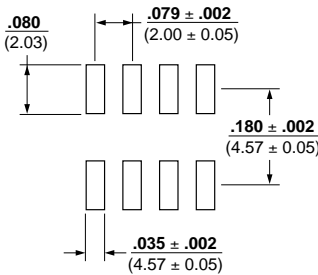
**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

Mechanical Characteristics

**Pin Push-Out Force:** 3 lbs

PCB LAYOUT



HOW TO ORDER

2MS220 V - B - 40 A - 2

Series

Type of Pins

V - Vertical Pins

B - Brass

Number of Contacts per Row

Pin Length

(0.157 inches)

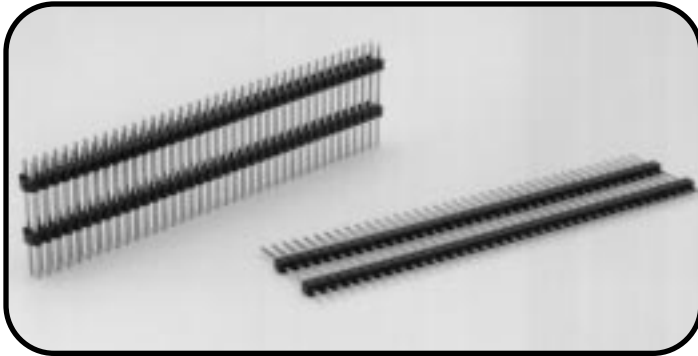
Blank - Without Locating Peg  
L - With Locating Peg

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

# 2M210BS, 2M220BS Series

## 0.079 (2mm) Centers

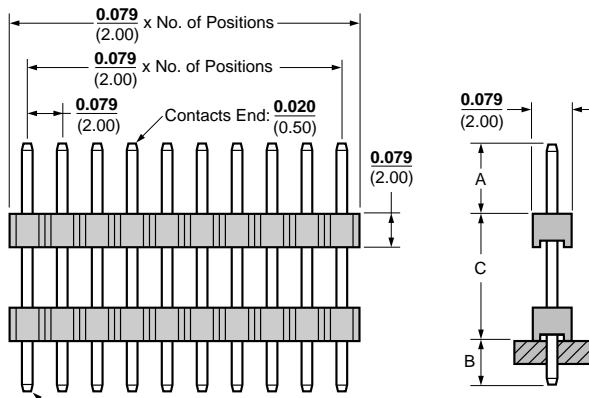
### Single and Dual Row



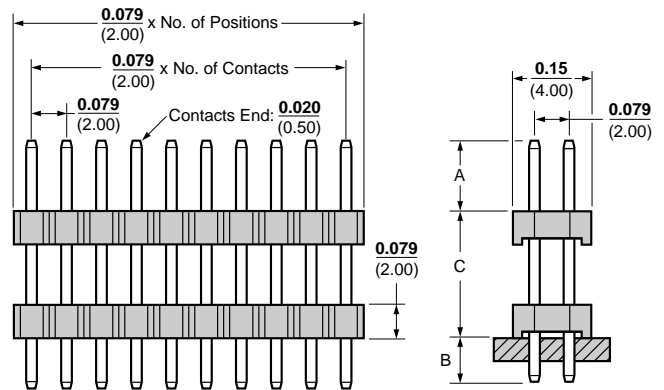
#### FEATURES

- 0.020 (0.50mm) square contact post
- 0.079 (2mm) centers between post spacing
- Single row from 2 to 40 positions
- Dual row from 4 to 80 positions
- Tin or three types of gold plating options
- Side and end stackable (on unbroken edges)
- Notches for easy breakage
- Maintains dimension between two PC boards
- Standoffs facilitate post soldering clean

#### DIMENSIONS – 2M210BS SINGLE ROW



#### DIMENSIONS – 2M220BS DUAL ROW



#### HOW TO ORDER

**2M210BS - V - B 40 - .XXX - .XXX - .XXX - 2**

Series  
2M210BS – Single Row  
2M220BS – Double Row

Contacts  
V – Vertical

Contacts  
B – Brass

Number of Contacts  
Per Row

Dimension B  
Dimension A  
Dimension C

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

#### Performance Specifications

#### Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper

- Gold:
- (A) 10 microinch gold over 50 microinch nickel
  - (B) 15 microinch gold over 50 microinch nickel
  - (C) 30 microinch gold over 50 microinch nickel

#### Electrical Characteristics

**Contact Current Rating:** 1 amp

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 630Vdc minimum

**Insulation Resistance:** 5,000 megohms minimum

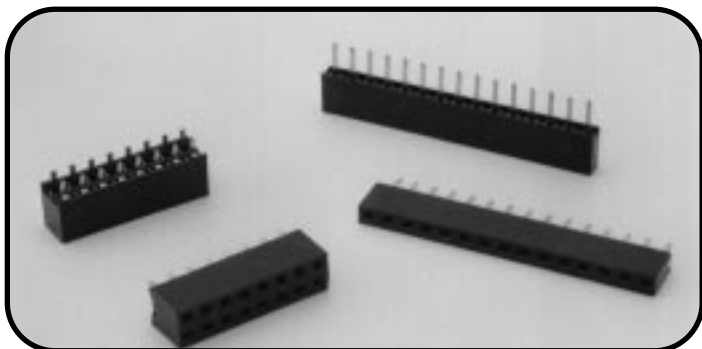
**Temperature Rating:** -55° C to + 125° C



# 2M410, 2M420 Series

## 0.079 (2mm) Centers

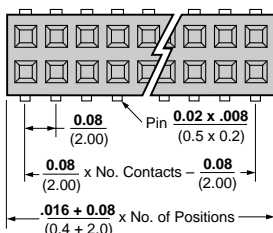
### Single and Dual Row



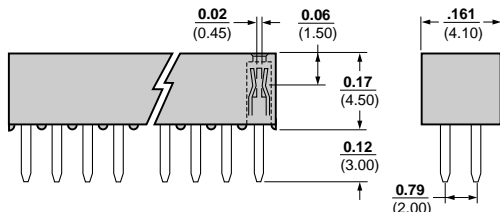
#### FEATURES

- Low profile: 4.3mm height
- Designed for parallel and vertical board stacking
- Mating with 2.0mm grid, dual row male header
- 4-80 positions

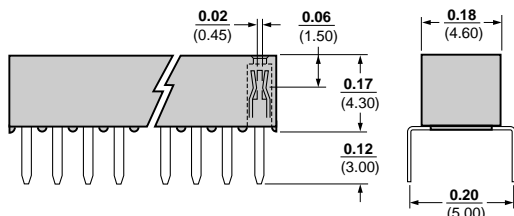
#### DIMENSIONS – 2M420 DUAL ROW



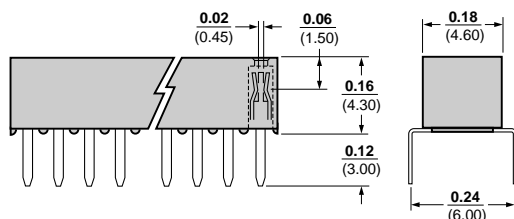
#### DIMENSIONS – 2M420 TOP ENTRY



#### DIMENSIONS – 2M421 TOP/BOTTOM ENTRY



#### DIMENSIONS – 2M422 TOP/BOTTOM ENTRY



## Performance Specifications

### Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Phosphor bronze

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper

- Gold:
- (A) 10 microinch gold over 50 microinch nickel
  - (B) 15 microinch gold over 50 microinch nickel
  - (C) 30 microinch gold over 50 microinch nickel

### Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000Vdc minimum

**Insulation Resistance:** 5,000 megohms minimum

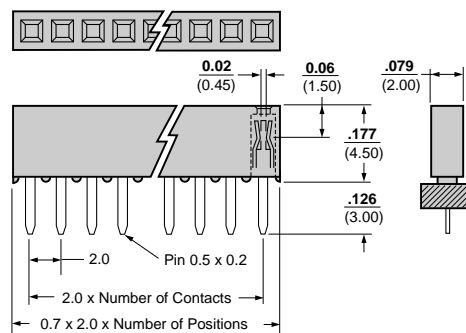
**Temperature Rating:** -55° C to +125° C

### Mechanical Characteristics

**Pin Push-Out Force:** 3 lbs

#### DIMENSIONS – SINGLE ROW

##### 2M410 – TOP ENTRY



#### How To ORDER

2M410 - 10 - 2

##### Series

- 2M410 – Single row top entry
- 2M420 – Dual row top entry
- 2M421 – Dual row top/bottom entry
- 2M422 – Dual row top/bottom entry

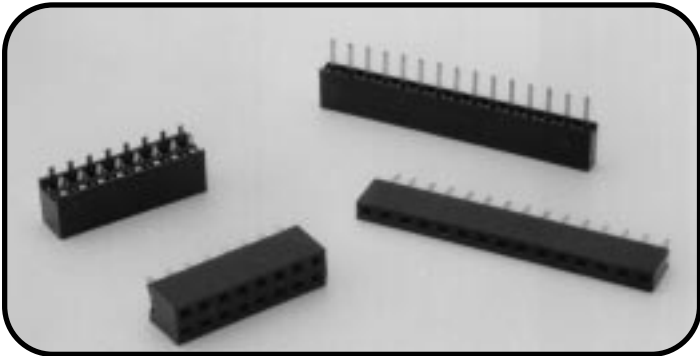
##### Number of Contacts per Row

- Single – 2 to 40
- Dual – 4 to 80

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

## HEADERS

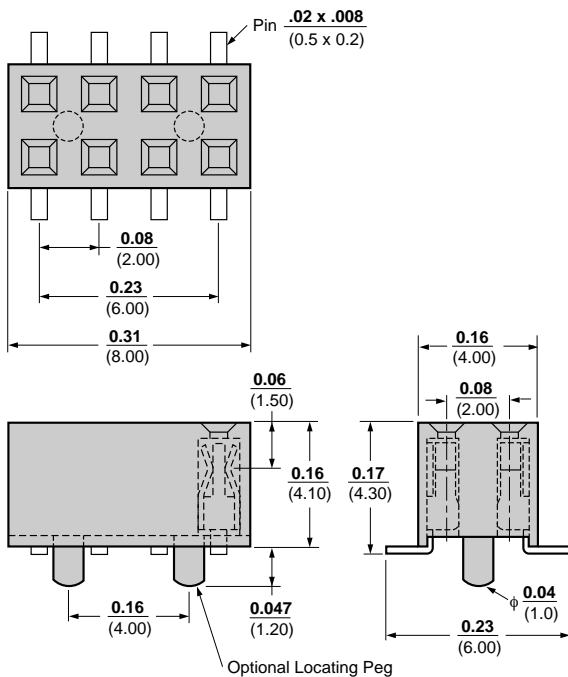
# 2MS420 Series 0.079 (2mm) Surface Mount, Dual Row, 6 to 60 Positions



## FEATURES

- Low profile: 4.1mm height
- Dual beam phosphor bronze contacts
- Designed for board to board small spacing interconnection
- Mating with 1.27mm pitch 0.46mm square headers

## DIMENSIONS



## MAXCONN - [\(Back to Table of Contents\)](#)

## Performance Specifications Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Phosphor Bronze

**Contact Finish:**

- 1 Tin: 100 microinch tin over 70 microinch copper
- 2 – 10 microinch gold over 50 microinch nickel
- 3 – 15 microinch gold over 50 microinch nickel
- 4 – 30 microinch gold over 50 microinch nickel

## Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000Vrms

**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

## Mechanical Characteristics

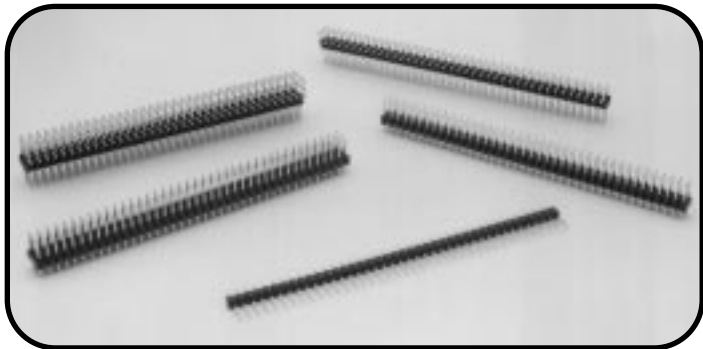
**Pin Push-Out Force:** 3 lbs

## HOW TO ORDER

		<b>2MS420 - 60 - 1</b>			
Series 2MS420				Blank – Without Locating Peg	
				L – With Locating Peg	
Number of Contacts 6 to 60				Code	Plating Options
				1	100 microinch tin
				2	10 microinch gold
				3	15 microinch gold
				4	30 microinch gold

HEADERS

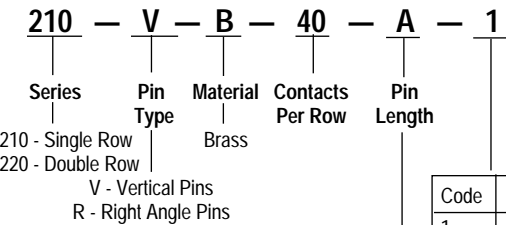
210, 220, 230 Series  
0.1 (2.54mm) Centers  
Single, Dual and Three Row



FEATURES

- 0.025 (0.635) square contact post
- 0.100 (2.54) centers between post spacing
- Stack headers end-to-end or side-to-side without loss of positions
- Mates with 0.100 x 0.100 grid female connector
- Available in five options: single, dual, and three rows with vertical or right angle configurations
- Easy breakaway to required size
- Single row from 1 to 40 positions
- Dual row from 2 to 40 positions per row
- Three rows from 3 to 40 positions per row
- Any pin can be void for polarization
- Tin or three types of gold plating options
- Any pin length available to 3.5 inches maximum

HOW TO ORDER — 210, 220 SERIES



Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

Configuration	Code	Dimensions	
		A	B
Vertical	A	0.100	0.220
Vertical	B	0.149	0.295
Right Angle	C	0.149	0.295
Vertical/Rt Angle	X	Any pin length available to 3.5 inches maximum (upon request)	

MAXCONN - (Back to Table of Contents)

Performance Specifications  
Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper  
Gold: (A) 10 microinch gold over 50 microinch nickel  
(B) 15 microinch gold over 50 microinch nickel  
(C) 30 microinch gold over 50 microinch nickel

Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000Vrms

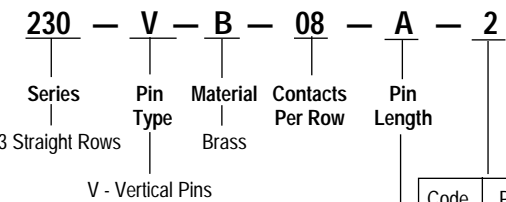
**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

Mechanical Characteristics

**Pin Push-Out Force:** 3 lbs

HOW TO ORDER — 230 SERIES



Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

Configuration	Code	Dimensions	
		A	B
Vertical	C	0.120	0.230

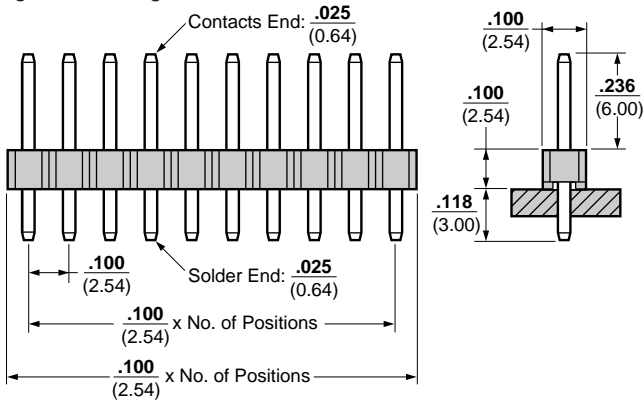
## HEADERS

210, 220, 230 Series  
0.1 (2.54mm) Centers  
Single, Dual and Three Row

### Mounting Options

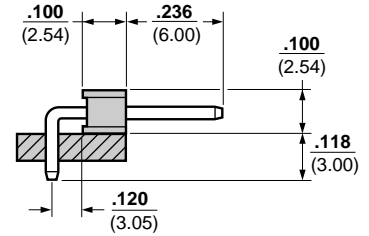
#### 210V Series

##### Single Row, Straight



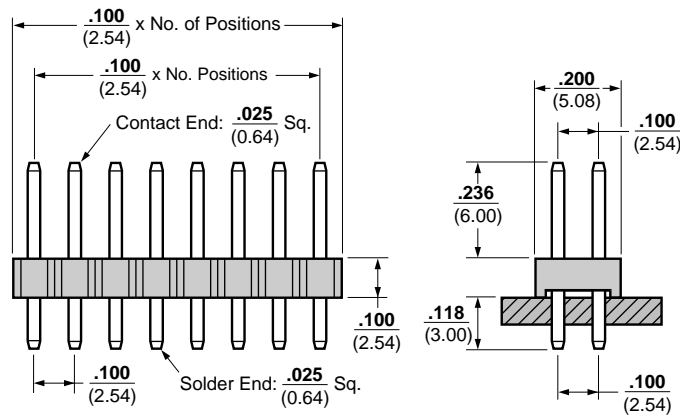
#### 210R Series

##### Single Row, Right Angle



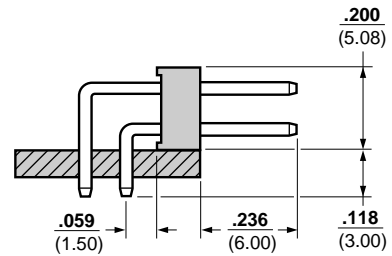
#### 220V Series

##### Dual Row, Straight



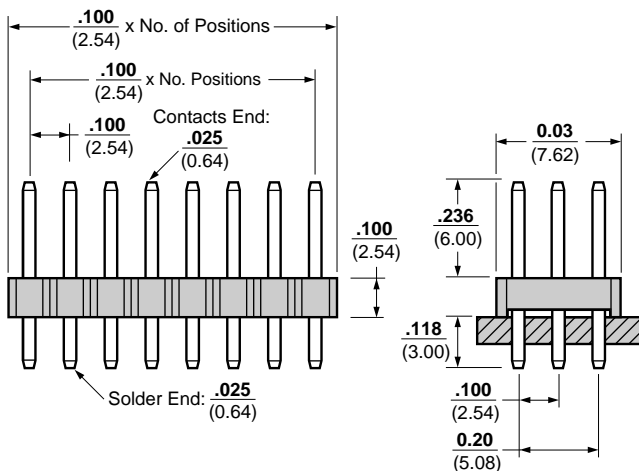
#### 220R Series

##### Dual Row, Right Angle



#### 230 Series

##### Three Row, Straight



HEADERS

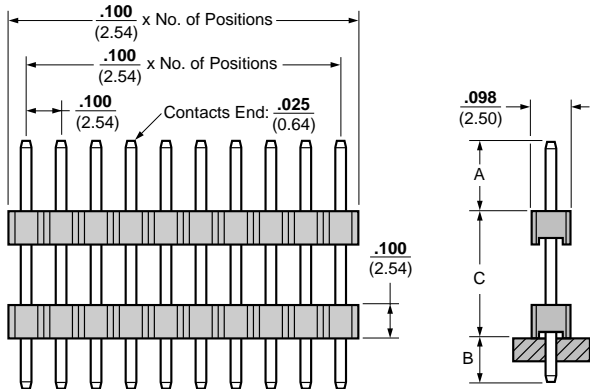
210BS, 220BS Series  
0.1 (2.54mm) Centers  
Single and Dual Row



FEATURES

- 0.025 (0.635) square contact post
- 0.100 (2.54) centers between post spacing
- Single row from 2 to 40 positions
- Dual row from 4 to 80 positions
- Tin or three types of gold plating options
- Side and end stackable (on unbroken edges)
- Notches for easy breakage
- Maintains dimension between two PC boards
- Standoffs facilitate post soldering cleaning

DIMENSIONS – 210BS (SINGLE ROW)



MAXCONN - [\(Back to Table of Contents\)](#)

Performance Specifications  
Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper

- Gold: (A) 10 microinch gold over 50 microinch nickel  
(B) 15 microinch gold over 50 microinch nickel  
(C) 30 microinch gold over 50 microinch nickel

Electrical Characteristics

**Contact Current Rating:** 1 amp

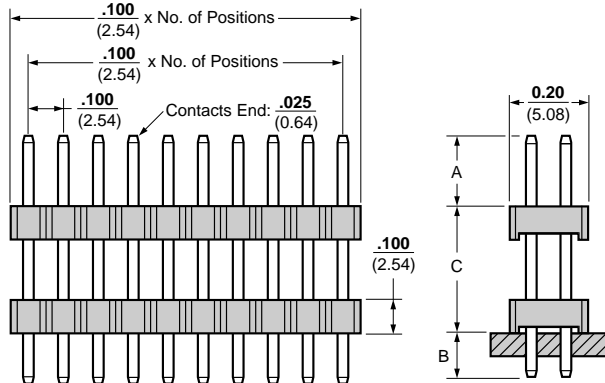
**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 500 Vdc minimum

**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

DIMENSIONS – 220BS (DUAL ROW)



HOW TO ORDER

210BS - V - B 40 - .XXX - .XXX - .XXX - 2

Series  
210BS - Single Row  
220BS - Dual Row

Contacts  
V - Vertical

Contacts  
B - Brass

Number of Contacts  
Per Row

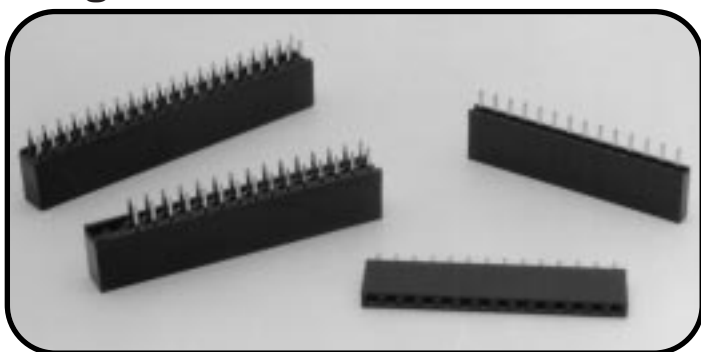
Dimension B  
Dimension A  
Dimension C

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

# 410, 420 Series

## 0.1 (2.54mm) Centers

### Single and Dual Row



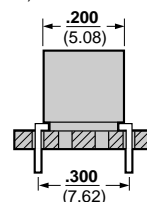
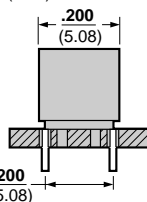
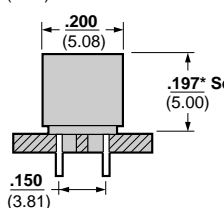
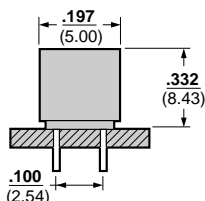
- Mates with 0.025 (0.635mm) square contact post
- Available in four options: single or dual rows, with straight tails
- Single row from 4 to 86 positions
- Dual row from 4 to 40 positions
- 0.100 x 0.100 grid

Diagram illustrating the layout of a 2x8 grid of square footings. The grid consists of 2 rows and 8 columns of square footings. The dimensions are defined as follows:

- Overall width:  $0.5 + 2.54 \times \text{No. of positions}$
- Distance between the center of the first and last footing in a row:  $2.54 \times \text{No. of positions} - 2.54$
- Distance from the left edge to the center of the first footing:  $100$  (2.54)
- Overall height:  $200$  (5.08)

Side view of a 16-pin DIP package. The package is shown in profile, highlighting its height. A dimension line on the right indicates a height of  $.332$  (8.43).

Top view of the component showing a rectangular body with 10 pins on the bottom edge. The height of the body is dimensioned as .197 (5.00).



**Pin Push-Out Force: 3 lbs**

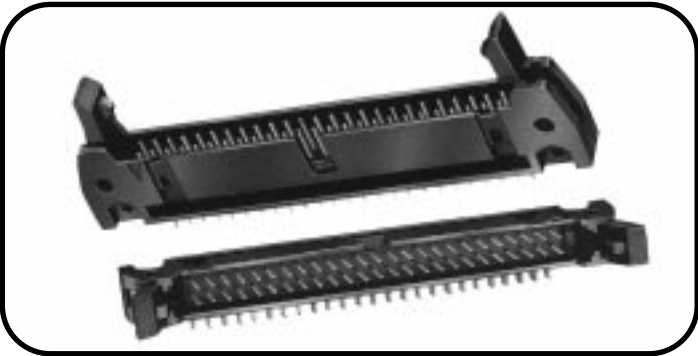
410 - 40 - 1

Dual – 4 to 80

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

HEADERS

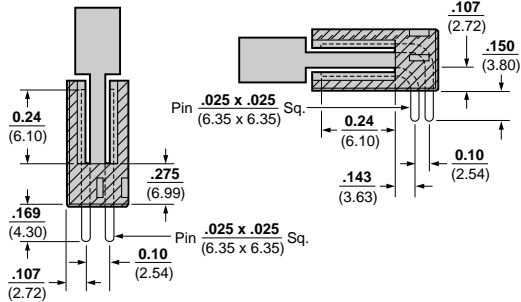
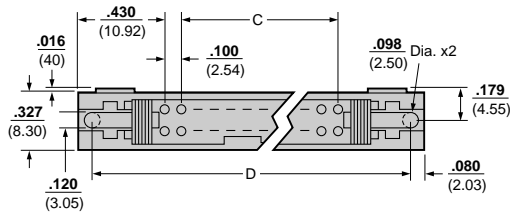
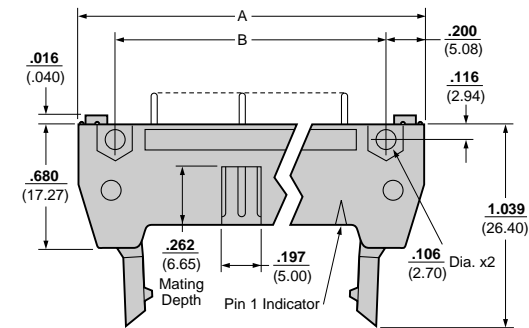
EH Series  
0.1 (2.54mm) Centers  
Dual Row



FEATURES

- Fully shrouded construction for added pin protection
- Available in 10, 14, 16, 20, 26, 34, 40, 50, and 64 positions
- Available in vertical or right angle mounting configurations
- Optional latches are available
- Mates with .100 x .100 grid female connector
- Tin or three types of gold plating options

DIMENSIONS



Side View  
Vertical

Side View  
Right Angle

MAXCONN - (Back to Table of Contents)

Performance Specifications  
Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper

- Gold:
- (A) 10 microinch gold over 50 microinch nickel
  - (B) 15 microinch gold over 50 microinch nickel
  - (C) 30 microinch gold over 50 microinch nickel

Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000 VDC MINIMUM

**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

Mechanical Characteristics

**Pin Push-Out Force:** 14 lbs

Number of Contacts	Header Dimension			
	A	B	C	D
10	1.26 32.00	0.86 21.84	0.40 10.16	0.10 27.94
12	1.36 34.54	0.96 24.38	0.50 12.70	1.22 30.84
14	1.46 37.08	1.06 26.92	0.60 15.24	1.30 33.02
16	1.56 39.62	1.16 29.46	0.70 17.78	1.40 35.56
20	1.76 44.70	1.36 34.54	0.90 22.86	1/59 40.46
24	1.96 49.78	1.56 39.62	1.10 27.94	1.80 45.72
26	2.06 52.32	1.66 42.16	1.20 30.48	1.90 48.26
30	2.26 57.40	1.86 47.24	1.40 35.56	2.10 53.34
34	2.46 62.48	2.06 52.32	1.60 40.64	2.30 58.42
40	2.76 70.10	2.36 59.94	1.90 48.26	2.60 66.04
50	3.26 82.80	2.86 72.64	2.40 60.96	3.10 78.74
56	3.56 90.42	3.16 80.26	2.70 68.58	3.28 83.36
60	3.76 95.50	3.36 85.34	2.90 73.66	3.60 91.44
64	3.96 100.58	3.56 90.42	3.10 78.74	3.80 96.52

How To ORDER

EH - V - 10 - L - 2

Series  
EH

Pins

V – Vertical pins  
R – Right angle pins

Number of  
Positions

10 to 64

Ejector Latch

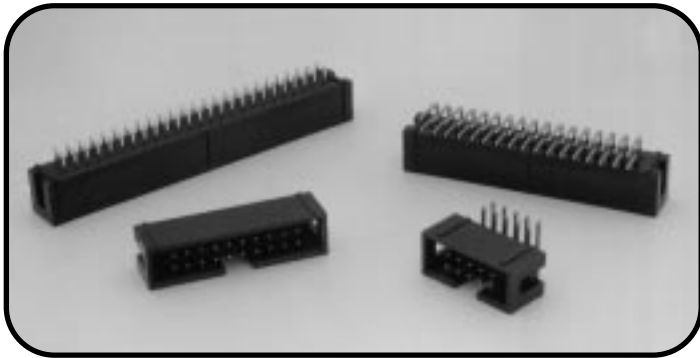
Blank – Without latch  
L – With latch

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold



## HEADERS

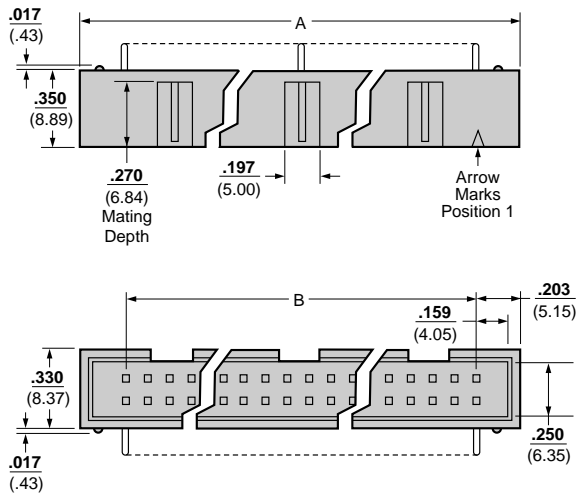
# SH Series 0.1 (2.54mm) Centers Dual Row



### FEATURES

- Fully shrouded construction for added pin protection
- Available in 10, 14, 16, 20, 26, 34, 40, 50, 60, 64 positions
- Available in vertical or right angle mounting configurations
- Low profile
- Mates with .100 x .100 grid female connector
- Tin or three types of gold plating options

### DIMENSIONS



No. of Pins	Header Dimensions	
	A	B
10	0.80 20.30	0.40 10.16
12	0.90 22.84	0.50 12.70
14	1.00 25.38	0.60 15.24
16	1.10 27.92	0.70 17.78
20	1.30 33.00	0.90 22.86
24	1.50 38.08	1.10 27.94
26	1.60 40.62	1.20 30.48
30	1.80 45.70	1.40 35.56

No. of Pins	Header Dimensions	
	A	B
34	2.00 50.78	1.60 40.64
40	2.30 58.40	1.90 48.26
44	2.50 63.48	2.10 53.34
50	2.80 71.10	2.40 60.96
56	3.10 78.72	2.70 68.58
60	3.30 83.80	2.90 73.66
64	3.50 88.88	3.10 78.74

## MAXCONN - [\(Back to Table of Contents\)](#)

### Performance Specifications

#### Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper

- Gold:
- (A) 10 microinch gold over 50 microinch nickel
  - (B) 15 microinch gold over 50 microinch nickel
  - (C) 30 microinch gold over 50 microinch nickel

#### Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

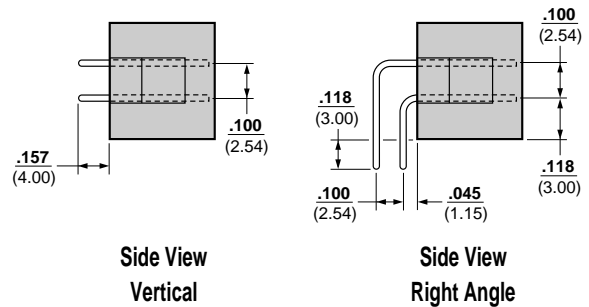
**Dielectric Withstanding Voltage:** 1000Vac

**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

#### Mechanical Characteristics

**Pin Push-Out Force:** 14 lbs



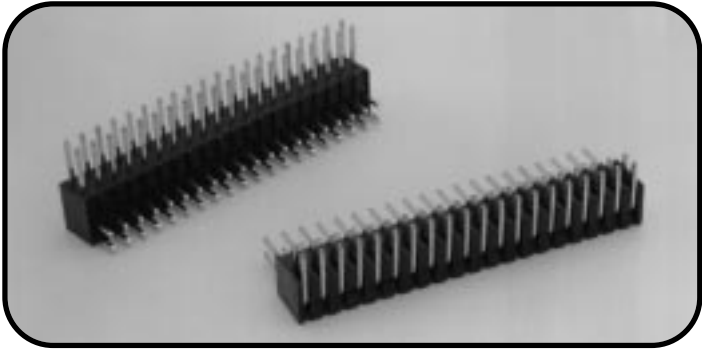
### HOW TO ORDER

SH - V - 10 - 1	
Series	
Pin Style	
V - Vertical pins	
R - Right angle pins	
Number of Positions	
10 to 64	
(See table)	
Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold



HEADERS

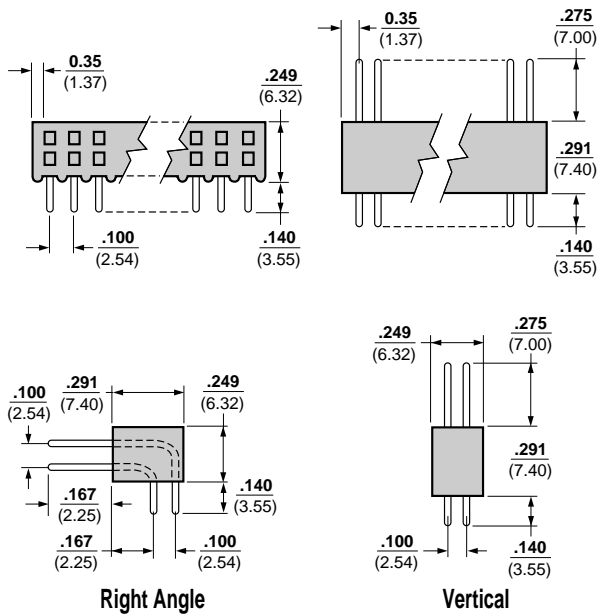
320 Series  
0.1 (2.54mm) Centers  
Dual Row



FEATURES

- Large plastic body for added mechanical stability and strength
- 0.025 (0.635mm) square contact post
- 0.100 (2.54mm) centers between post spacing
- Mates with 0.100 x 0.100 grid female connector
- Available in dual rows with vertical or right angle configuration
- Tin or three types of gold plating options
- Dual row from 2 to 80 positions

DIMENSIONS



MAXCONN - (Back to Table of Contents)

Performance Specifications  
Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Brass

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper  
Gold: (A) 10 microinch gold over 50 microinch nickel  
(B) 15 microinch gold over 50 microinch nickel  
(C) 30 microinch gold over 50 microinch nickel

Electrical Characteristics

**Contact Current Rating:** 3 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 1000Vrms

**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

Mechanical Characteristics

**Pin Push-Out Force:** 14 lbs

HOW TO ORDER

320 — V — B — 40 — 1

Series — 320 — Dual Row

Pin Type — V — Vertical Pins  
R — Right Angle Pins

Material — B — Brass

Number of — 40 —  
Contacts Per Row

Code	Plating Options
1	100 microinch tin
2	10 microinch gold
3	15 microinch gold
4	30 microinch gold

# S100, S200, S300 Series

## 0.1 (2.54mm) Centers

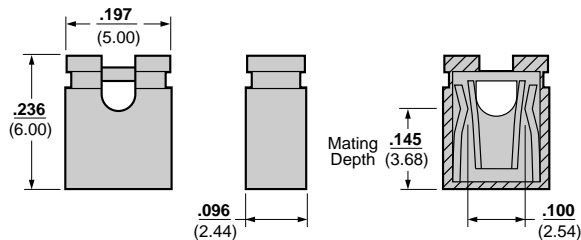


### FEATURES

- Low or high insertion force is available
- Low or high profile is available
- Black or blue colors (other colors are available upon request)
- Mate with 0.025 (0.635) square contact post on 0.100 centers
- Unique dual leaf contact gives balanced forces and low resistance
- Chamfered entry for mating alignment
- Fully stackable side to side or end to end without loss of positions
- Tin of three types of gold plating options
- Open top to accommodate mating with long contact post

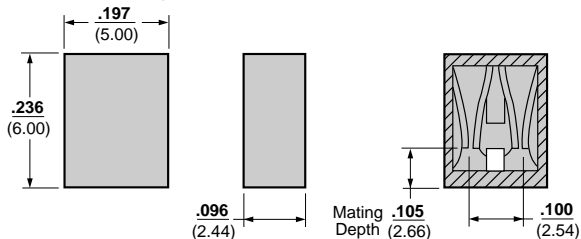
### DIMENSIONS — S100 SERIES

#### HIGH PROFILE, LOW INSERTION FORCE



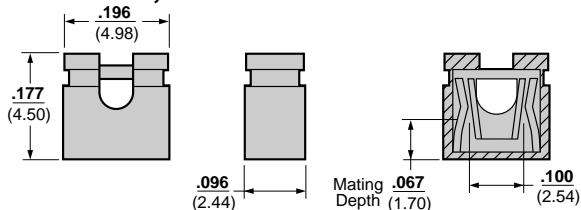
### S200 SERIES

#### HIGH PROFILE, HIGH INSERTION FORCE



### S300 SERIES

#### LOW PROFILE, LOW INSERTION FORCE



### PERFORMANCE SPECIFICATIONS

#### Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Phosfor Bronze

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper

Gold: (A) 10 microinch gold over 50 microinch nickel

(B) 15 microinch gold over 50 microinch nickel

(C) 30 microinch gold over 50 microinch nickel

#### Electrical Characteristics

**Contact Current Rating:** 2 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 630Vdc minimum

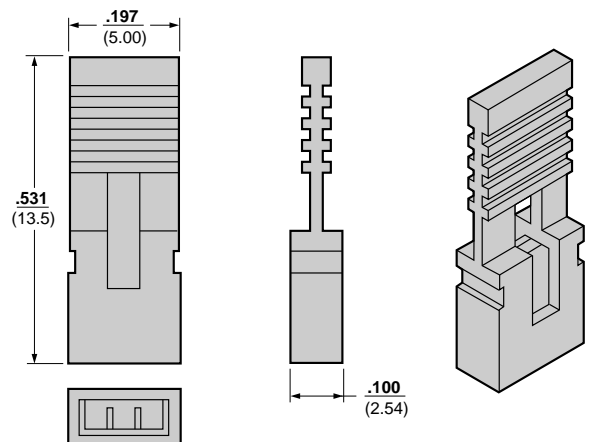
**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to +125° C

#### Mechanical Characteristics

Series	Nominal Contact Separation Force	Nominal Contact Engagement Force
S100	4 ounce	4 ounce
S200	5 ounce	7 ounce
S300	4 ounce	4 ounce

### S100 -T SERIES



### How To ORDER

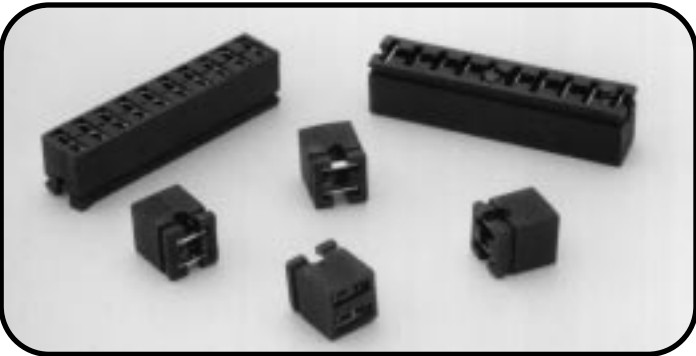
Series	Code	Plating Options
S100	1	100 microinch tin
S200	2	10 microinch gold
S300	3	15 microinch gold
	4	30 microinch gold

**Color**  
0 - Black  
6 - Blue

**Tabs**  
Blank - Without tab  
T - With tab

HEADERS

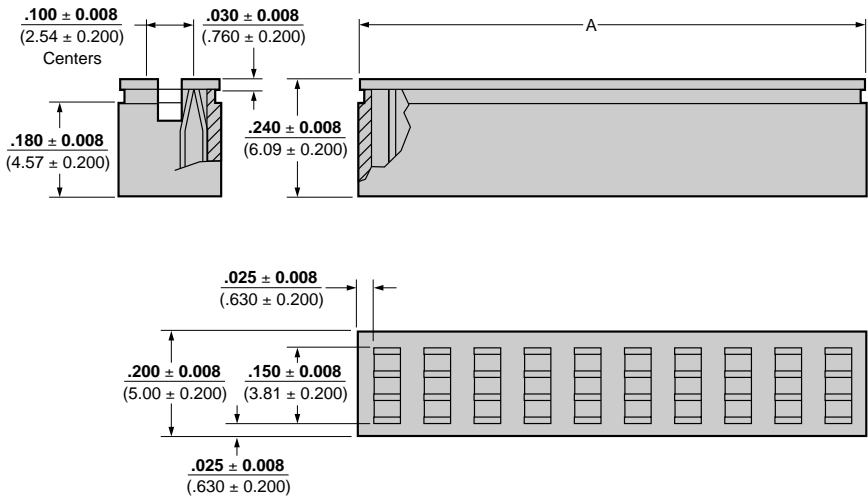
S9 Series  
0.1 (2.54mm) Centers



FEATURES

- Two to ten positions
- Mates with 0.025 (0.635) square contact post on 0.100 centers
- Unique dual leaf contact gives balanced forces and low resistance
- Fully stackable side to side or end to end without loss of positions
- Tin or three types of gold plating options
- Open top to accommodate mating with long contact post

DIMENSIONS



No. of Shunts	Dimensions A
2	0.300
3	0.400
4	0.500
5	0.600
6	0.700
7	0.800
8	0.900
9	1.000
10	1.100

MAXCONN - (Back to Table of Contents)

Performance Specifications  
Materials and Finish

**Dielectric Body:** PBT thermoplastic, black color, 30% glass filled, self-extinguishing, 94V-0 rated

**Contact Material:** Phosphor bronze

**Contact Finish:** Tin: 100 microinch tin over 70 microinch copper  
Gold: (A) 10 microinch gold over 50 microinch nickel  
(B) 15 microinch gold over 50 microinch nickel  
(C) 30 microinch gold over 50 microinch nickel

Electrical Characteristics

**Contact Current Rating:** 2 amps

**Contact Resistance:** 10 milliohms maximum

**Dielectric Withstanding Voltage:** 630Vdc minimum

**Insulation Resistance:** 5,000 megohms minimum

**Temperature Rating:** -55° C to + 125° C

HOW TO ORDER

	<b>S9</b>	<b>08</b>	<b>0 - 2</b>											
<b>Series</b>														
S9														
<b>Number of Shunts</b>														
2 to 10														
<b>Color</b>														
0 – Black														
				<table><tr><th>Code</th><th>Plating Options</th></tr><tr><td>1</td><td>100 microinch tin</td></tr><tr><td>2</td><td>10 microinch gold</td></tr><tr><td>3</td><td>15 microinch gold</td></tr><tr><td>4</td><td>30 microinch gold</td></tr></table>	Code	Plating Options	1	100 microinch tin	2	10 microinch gold	3	15 microinch gold	4	30 microinch gold
Code	Plating Options													
1	100 microinch tin													
2	10 microinch gold													
3	15 microinch gold													
4	30 microinch gold													