



## 1.00 mm [.039"] Male Headers, Straight, Right Angle, SMT

### SPECIFICATIONS

- 1 amp current rating
- UL Flammability Rating: 94V-0
- Insulator Material: Black LCP
- Contact Material: Phosphor Bronze
- Insulator Resistance: 1000 Mega OHMS Min.
- Contact Resistance: 20 Milli OHMS Max.
- Dielectric Withstanding: AC 300V
- Operating Temperature: -40°C to +125°C
- Processing Temperature: 260°C for 10 seconds Max.
- Mates with Female SFM series



### TERMINATION TYPE



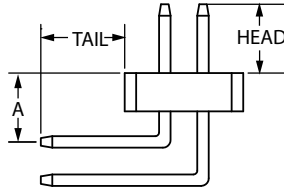
Straight, (ST)



Right Angle, (RA)



Straight, (ST)



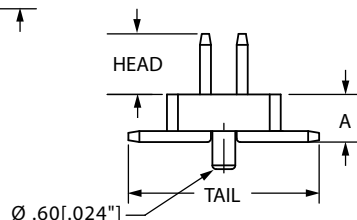
Right Angle, (RA)



SMT, (SC) or (SD)



SMT Without Guide Posts, (SM)



SMT With Guide Posts, (SP)

#### SINGLE ROW

| EXAMPLE P/N             | HEAD         | TAIL         | A            |
|-------------------------|--------------|--------------|--------------|
| STRAIGHT TERMINATION    |              |              |              |
| SMH100-LPPE-S10-ST-BK   | 1.80 [.071"] | 2.50 [.098"] | 1.00 [.039"] |
| RIGHT ANGLE TERMINATION |              |              |              |
| SMH100-LPPE-S10-RA-BK   | 1.80 [.071"] | 2.60 [.102"] | 1.80 [.071"] |

#### DUAL ROW

| EXAMPLE P/N             | HEAD         | TAIL         | A            |
|-------------------------|--------------|--------------|--------------|
| STRAIGHT TERMINATIONS   |              |              |              |
| SMH100-LPPE-D10-ST-BK   | 1.80 [.071"] | 2.50 [.098"] | 1.00 [.039"] |
| SMH150-LPPE-D10-ST-BK   | 1.80 [.071"] | 2.50 [.098"] | 1.50 [.059"] |
| RIGHT ANGLE TERMINATION |              |              |              |
| SMH100-LPPE-D10-RA-BK   | 1.80 [.071"] | 2.60 [.102"] | 1.80 [.071"] |

#### SURFACE MOUNT TERMINATIONS

| EXAMPLE P/N           | HEAD         | TAIL         | A            |
|-----------------------|--------------|--------------|--------------|
| SINGLE ROW            |              |              |              |
| SMH100-LPPE-S10-SC-BK | 1.65 [.065"] | 4.20 [.165"] | 1.30 [.051"] |
| SMH100-LPPE-S10-SD-BK | 1.65 [.065"] | 4.20 [.165"] | 1.30 [.051"] |
| DUAL ROW              |              |              |              |
| SMH101-LPPE-D10-SM-BK | 1.65 [.065"] | 5.20 [.205"] | 1.30 [.051"] |
| SMH101-LPPE-D10-SP-BK | 1.65 [.065"] | 5.20 [.205"] | 1.30 [.051"] |
| SMH102-LPPE-D10-SM-BK | 1.90 [.075"] | 5.20 [.205"] | 1.30 [.051"] |
| SMH102-LPPE-D10-SP-BK | 1.90 [.075"] | 5.20 [.205"] | 1.30 [.051"] |
| SMH151-LPPE-D10-SM-BK | 1.65 [.065"] | 5.20 [.205"] | 1.80 [.071"] |
| SMH151-LPPE-D10-SP-BK | 1.65 [.065"] | 5.20 [.205"] | 1.80 [.071"] |
| SMH152-LPPE-D10-SM-BK | 1.90 [.075"] | 5.20 [.205"] | 1.80 [.071"] |
| SMH152-LPPE-D10-SP-BK | 1.90 [.075"] | 5.20 [.205"] | 1.80 [.071"] |



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## PART NUMBER OPTIONS

**SMH100 - L P P E - S 10 - ST - BK**

### SERIES (See Opposite Page)

SMH100 = 1.00 mm [.039"] Profile, 1.80 mm [.071"] Head Height  
SMH101 = 1.00 mm [.039"] Profile, 1.65 mm [.065"] Head Height  
SMH102 = 1.00 mm [.039"] Profile, 1.90 mm [.075"] Head Height  
SMH150 = 1.50 mm [.059"] Profile, 1.80 mm [.071"] Head Height  
SMH151 = 1.50 mm [.059"] Profile, 1.65 mm [.065"] Head Height  
SMH152 = 1.50 mm [.059"] Profile, 1.90 mm [.075"] Head Height

### HOUSING MATERIAL

L = LCP

### CONTACT MATERIAL

P = Phosphor Bronze

### CONTACT FINISH - RoHS Compliant

P = Gold Flash Overall

S = 10u" Gold Overall

### CONTACT CENTERS

E = 1.00 mm [.039"]

### COLOR

BK = Black

### TERMINATION TYPE (See Opposite Page)

ST = Straight (1 & 2 Row)

RA = Right Angle (1 & 2 Row)

SC = Surface Mount, Standard (1 Row)

SD = Surface Mount, Opposite Bend,

Applicable on Even pin Counts (1 Row)

SM = Surface Mount without Guide Posts (2 Row)

SP = Surface Mount with Guide Posts (2 Row)

### NUMBER OF CONTACT POSITIONS (Pins per Row)

02 thru 50

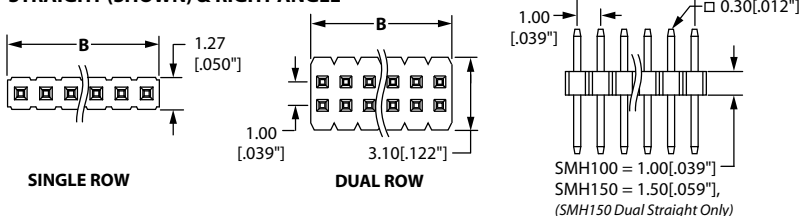
### NUMBER OF ROWS

S = Single Row

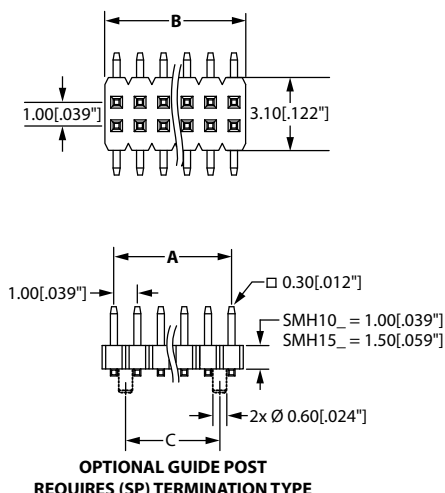
D = Dual Row

## DIMENSIONS

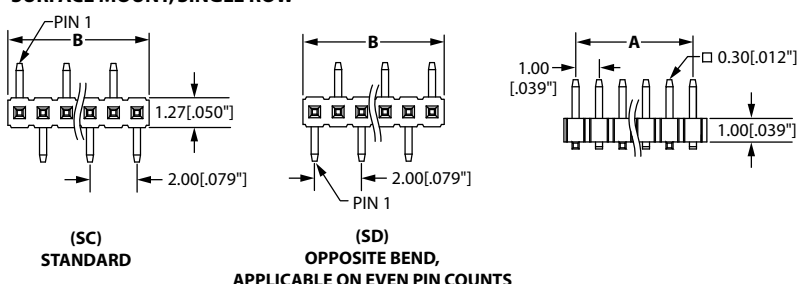
### STRAIGHT (SHOWN) & RIGHT ANGLE



### SURFACE MOUNT, DUAL ROW



### SURFACE MOUNT, SINGLE ROW



| Positions | Number of Contacts Single/Dual | DIMENSION A |          | DIMENSION B |          | DIMENSION C |          | Positions | Number of Contacts Single/Dual | DIMENSION A |          | DIMENSION B |          | DIMENSION C |          |
|-----------|--------------------------------|-------------|----------|-------------|----------|-------------|----------|-----------|--------------------------------|-------------|----------|-------------|----------|-------------|----------|
|           |                                | mm          | [Inches] | mm          | [Inches] | mm          | [Inches] |           |                                | mm          | [Inches] | mm          | [Inches] | mm          | [Inches] |
| 02*       | 02/04                          | 1.00        | 0.039    | 2.00        | 0.079    | N/A         | N/A      | 26        | 26/52                          | 25.00       | 0.984    | 26.00       | 1.024    | 24.00       | 0.945    |
| 03        | 03/06                          | 2.00        | 0.079    | 3.00        | 0.118    | 1.00        | 0.039    | 27        | 27/54                          | 26.00       | 1.024    | 27.00       | 1.063    | 25.00       | 0.984    |
| 04        | 04/08                          | 3.00        | 0.118    | 4.00        | 0.157    | 2.00        | 0.079    | 28        | 28/56                          | 27.00       | 1.063    | 28.00       | 1.102    | 26.00       | 1.024    |
| 05        | 05/10                          | 4.00        | 0.157    | 5.00        | 0.197    | 3.00        | 0.118    | 29        | 29/58                          | 28.00       | 1.102    | 29.00       | 1.142    | 27.00       | 1.063    |
| 06        | 06/12                          | 5.00        | 0.197    | 6.00        | 0.236    | 4.00        | 0.157    | 30        | 30/60                          | 29.00       | 1.142    | 30.00       | 1.181    | 28.00       | 1.102    |
| 07        | 07/14                          | 6.00        | 0.236    | 7.00        | 0.276    | 5.00        | 0.197    | 31        | 31/62                          | 30.00       | 1.181    | 31.00       | 1.220    | 29.00       | 1.142    |
| 08        | 08/16                          | 7.00        | 0.276    | 8.00        | 0.315    | 6.00        | 0.236    | 32        | 32/64                          | 31.00       | 1.220    | 32.00       | 1.260    | 30.00       | 1.181    |
| 09        | 09/18                          | 8.00        | 0.315    | 9.00        | 0.354    | 7.00        | 0.276    | 33        | 33/66                          | 32.00       | 1.260    | 33.00       | 1.299    | 31.00       | 1.220    |
| 10        | 10/20                          | 9.00        | 0.354    | 10.00       | 0.394    | 8.00        | 0.315    | 34        | 34/68                          | 33.00       | 1.299    | 34.00       | 1.339    | 32.00       | 1.260    |
| 11        | 11/22                          | 10.00       | 0.394    | 11.00       | 0.433    | 9.00        | 0.354    | 35        | 35/70                          | 34.00       | 1.339    | 35.00       | 1.378    | 33.00       | 1.299    |
| 12        | 12/24                          | 11.00       | 0.433    | 12.00       | 0.472    | 10.00       | 0.394    | 36        | 36/72                          | 35.00       | 1.378    | 36.00       | 1.417    | 34.00       | 1.339    |
| 13        | 13/26                          | 12.00       | 0.472    | 13.00       | 0.512    | 11.00       | 0.433    | 37        | 37/74                          | 36.00       | 1.417    | 37.00       | 1.457    | 35.00       | 1.378    |
| 14        | 14/28                          | 13.00       | 0.512    | 14.00       | 0.551    | 12.00       | 0.472    | 38        | 38/76                          | 37.00       | 1.457    | 38.00       | 1.496    | 36.00       | 1.417    |
| 15        | 15/30                          | 14.00       | 0.551    | 15.00       | 0.591    | 13.00       | 0.512    | 39        | 39/78                          | 38.00       | 1.496    | 39.00       | 1.535    | 37.00       | 1.457    |
| 16        | 16/32                          | 15.00       | 0.591    | 16.00       | 0.630    | 14.00       | 0.551    | 40        | 40/80                          | 39.00       | 1.535    | 40.00       | 1.575    | 38.00       | 1.496    |
| 17        | 17/34                          | 16.00       | 0.630    | 17.00       | 0.669    | 15.00       | 0.591    | 41        | 41/82                          | 40.00       | 1.575    | 41.00       | 1.614    | 39.00       | 1.535    |
| 18        | 18/36                          | 17.00       | 0.669    | 18.00       | 0.709    | 16.00       | 0.630    | 42        | 42/84                          | 41.00       | 1.614    | 42.00       | 1.654    | 40.00       | 1.575    |
| 19        | 19/38                          | 18.00       | 0.709    | 19.00       | 0.748    | 17.00       | 0.669    | 43        | 43/86                          | 42.00       | 1.654    | 43.00       | 1.693    | 41.00       | 1.614    |
| 20        | 20/40                          | 19.00       | 0.748    | 20.00       | 0.787    | 18.00       | 0.709    | 44        | 44/88                          | 43.00       | 1.693    | 44.00       | 1.732    | 42.00       | 1.654    |
| 21        | 21/42                          | 20.00       | 0.787    | 21.00       | 0.827    | 19.00       | 0.748    | 45        | 45/90                          | 44.00       | 1.732    | 45.00       | 1.772    | 43.00       | 1.693    |
| 22        | 22/44                          | 21.00       | 0.827    | 22.00       | 0.866    | 20.00       | 0.787    | 46        | 46/92                          | 45.00       | 1.772    | 46.00       | 1.811    | 44.00       | 1.732    |
| 23        | 23/46                          | 22.00       | 0.866    | 23.00       | 0.906    | 21.00       | 0.827    | 47        | 47/94                          | 46.00       | 1.811    | 47.00       | 1.850    | 45.00       | 1.772    |
| 24        | 24/48                          | 23.00       | 0.906    | 24.00       | 0.945    | 22.00       | 0.866    | 48        | 48/96                          | 47.00       | 1.850    | 48.00       | 1.890    | 46.00       | 1.811    |
| 25        | 25/50                          | 24.00       | 0.945    | 25.00       | 0.984    | 23.00       | 0.906    | 49        | 49/98                          | 48.00       | 1.890    | 49.00       | 1.929    | 47.00       | 1.850    |
|           |                                |             |          |             |          |             |          | 50        | 50/100                         | 49.00       | 1.929    | 50.00       | 1.969    | 48.00       | 1.890    |

\* Position 2 not available with Guide posts.