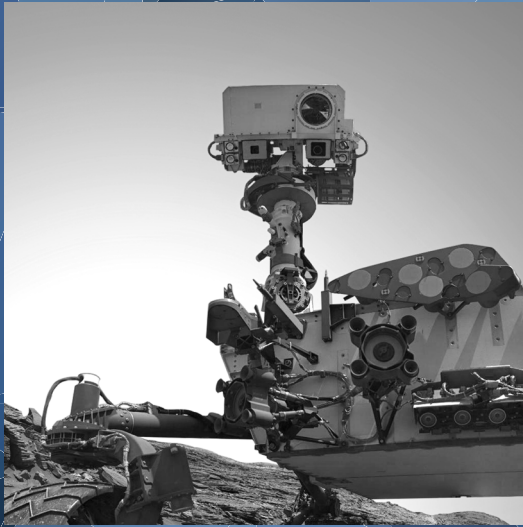


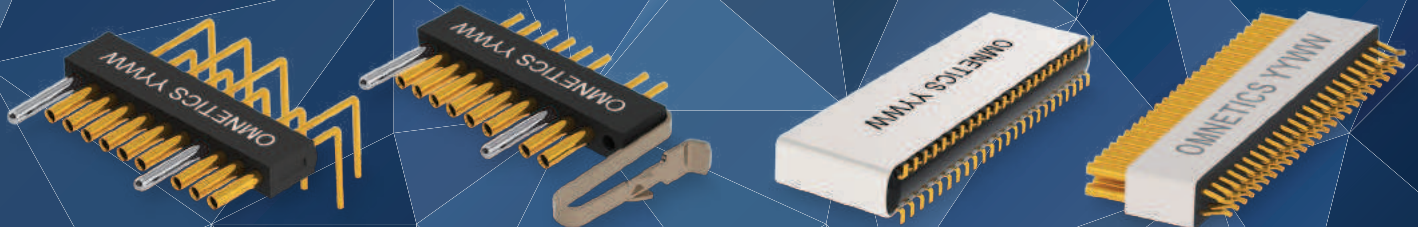
OMNETICS

CONNECTOR CORPORATION



MICRO & NANO STRIP CONNECTORS

Micro .050" (1.27mm) & Nano .025" (.64mm) Catalog

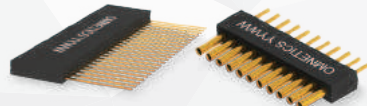


Micro Strip Picture Index

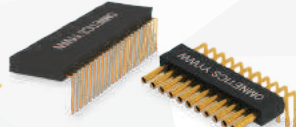
SINGLE ROW MICRO STRIP (PS1/PS2/SSB) SERIES:



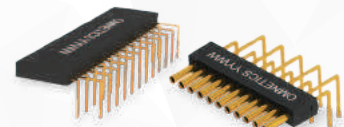
Horizontal SMT (AA)
Pages 5-8



Straight Tail (DD)
Pages 9-12



Short Thru-Hole (BB)
Pages 13-16



Short/Long Alt. Thru-Hole (H2)
Pages 17-20



Long Thru-Hole (CC)
Pages 21-24



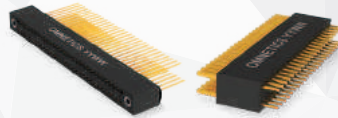
Solder Cup (SS)
Pages 25-28

Pre-Wired (WD)
Pages 29-32

DUAL ROW MICRO STRIP (DRP/DRS) SERIES:



Horizontal SMT (AA)
Pages 33-36



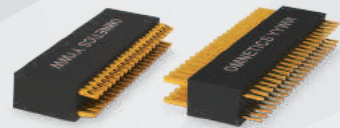
Straight Tail (DD)
Pages 37-40



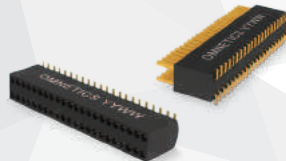
Flex Tail (FF)
Pages 41-43



Short/Long Alt. Thru-Hole (H2)
Pages 44-47



Solder Cup (SS)
Pages 48-51



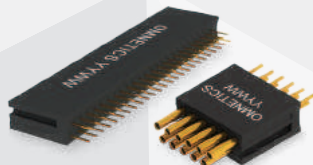
Vertical SMT (VV)
Pages 52-55

Pre-Wired (WD)
Pages 56-59

DUAL ROW OFFSET MICRO STRIP (PSM/SSO) SERIES:



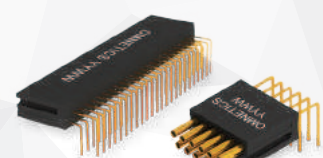
Horizontal SMT (AA)
Pages 60-63



Straight Tail (DD)
Pages 64-67



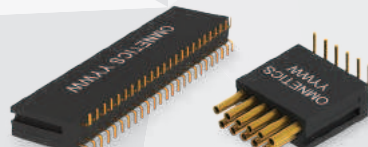
Flex Tail (FF)
Pages 68-71



Short/Long Alt. Thru-Hole (H2)
Pages 72-75



Solder Cup (SS)
Pages 76-79



Vertical SMT (VV)
Pages 80-83

Pre-Wired (WD)
Pages 84-87

Single Row Micro Strip

HORIZONTAL SMT (TYPE AA)

Horizontal SMT Micro Strip connectors offer an extremely low profile package that is well suited to pick and place methods. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These rugged light weight connectors are suitable for the most demanding applications. Available with mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.



5

ELECTRO-MECHANICAL SPECS

- Durability: 2000 Cycles
- Temperature: -55°C to +125 °C (200 °C w/HTE)
- Current rating: 3 AMPs max per contact
- Voltage Rating (DWV): 600 VAC RMS Sea Level
- Insulation Resistance: 5000 Megohms min @ 500 VDC
- Shock: 50 g's discontinuity < 1 microsecond
- Vibration: 20 g's discontinuity < 1 microsecond
- Thermal Vacuum Outgassing: NASA SP-R-0022
- Contact Resistance: 26 Milliohms (65 mV max @ 2.5 amp)
- Mating/Unmating Force: 3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

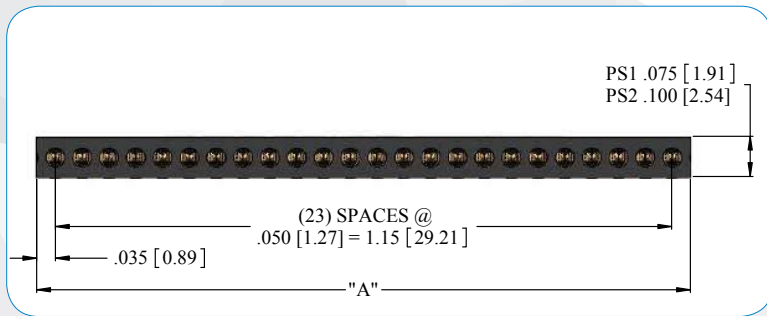
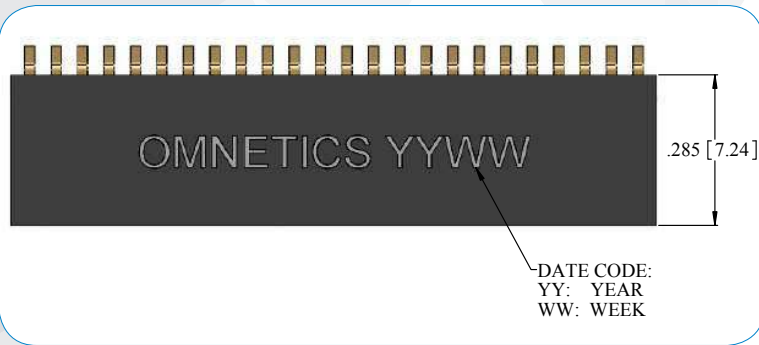
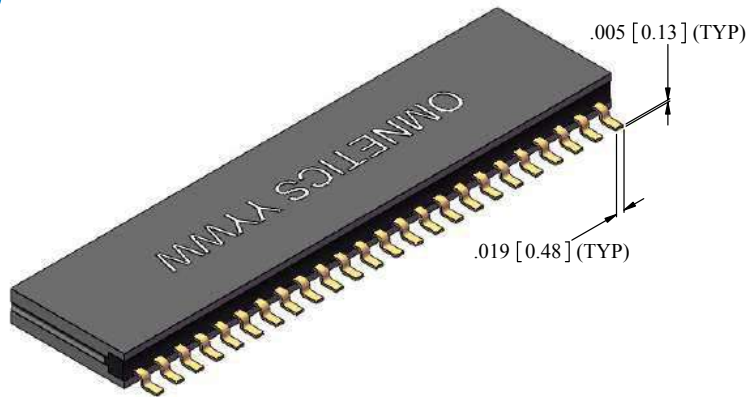
- Standard Socket PCB Tail Termination: Solder per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination: Solder plate per AMS-P-81728 (Non-RoHS)
- RoHS Pin PCB Tail Termination: Hard gold plate per ASTM B488
- RoHS Socket PCB Tail Termination: Hard gold plate per ASTM B488

- Insulator: Polyphenylene Sulfide per MIL-M-24519
- Pin: Gold Plated BeCu
- Socket: Gold Plated Copper Alloy
- Encapsulant: Epoxy

Single Row Micro Strip

PS1/PS2-AA LAYOUT

9



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

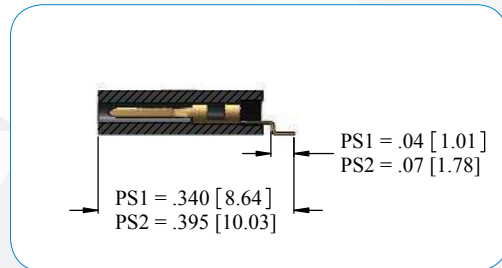
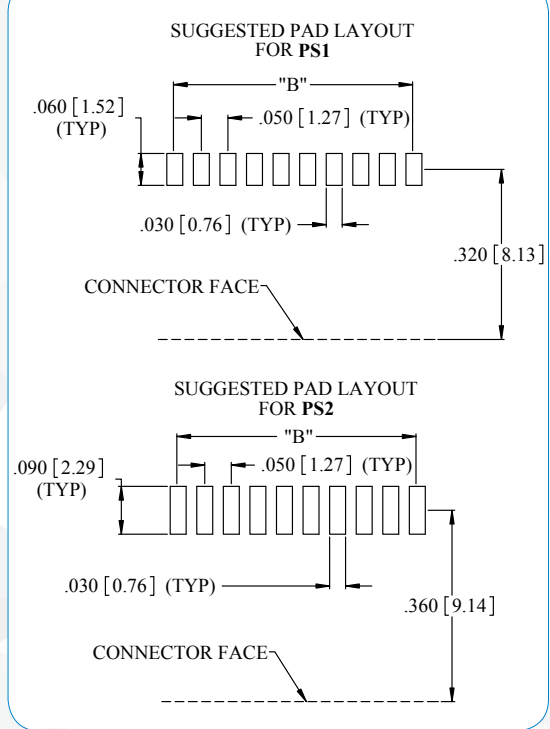
DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____

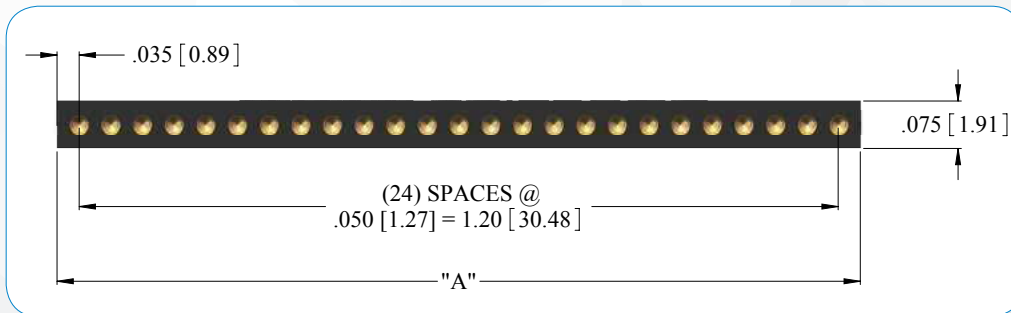
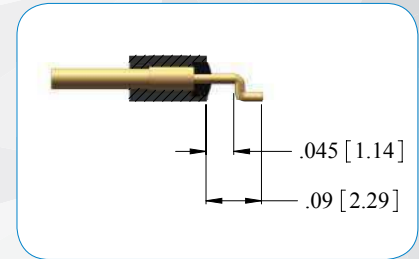
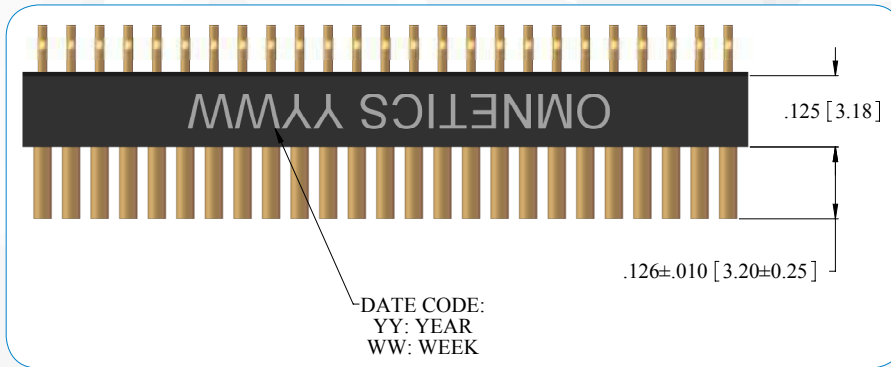
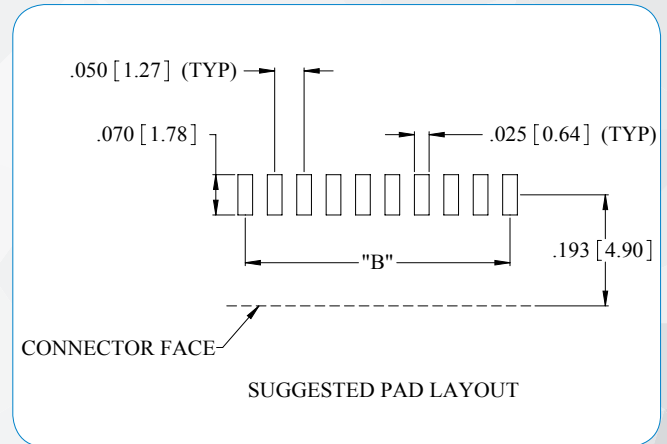
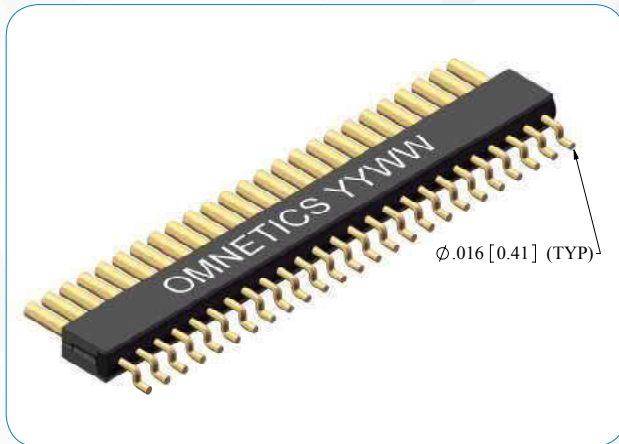
Notes: Maximum pad layout length 2.35" (59.69). Add .100" from center of mounting hole to first pad (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



Single Row Micro Strip

SSB-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":






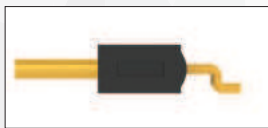





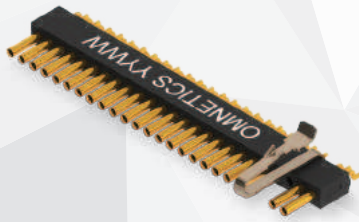



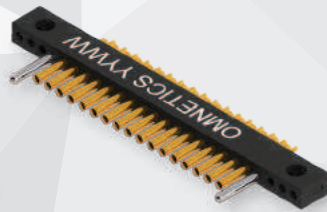

Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____

Notes: Maximum pad layout length 2.35" (59.69). Add .100" from center of mounting hole to first pad (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

HORIZONTAL SMT (TYPE AA) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
PS1 PIN CONNECTOR Standard: .075" thick	02 - 48	AA	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES  
PS2 PIN CONNECTOR .100" thick			LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT)  
SSB SOCKET CONNECTOR			LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT)  
EXAMPLES:			M MOUNTING HOLE  
 PS1-06-AA-M	 SSB-24-AA-LT		HT HIGH TEMP  
 SSB-24-AA-LE	 SSB-17-AA-M-GS		RoHS RoHS COMPLIANT 

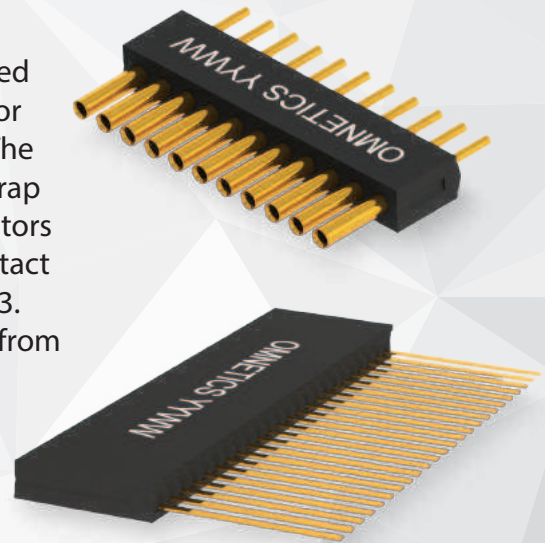


Single Row Micro Strip

STRAIGHT TAIL (TYPE DD)

The Single Row .050" Micro Strip connectors are configured with simple straight tails (Integral or Crimped). Suitable for vertical thru-hole mounting to fine pitched flex circuits. The straight solid tails are also commonly used in ultra fine wrap terminations, such as as electrophysiology. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.



ELECTRO-MECHANICAL SPECS

- Durability: _____ 2000 Cycles
- Temperature: _____ -55°C to +125 °C (200 °C w/HTE)
- Current rating: _____ 3 AMPs max per contact
- Voltage Rating (DWV): _____ 600 VAC RMS Sea Level
- Insulation Resistance: _____ 5000 Megohms min @ 500 VDC
- Shock: _____ 50 g's discontinuity < 1 microsecond
- Vibration: _____ 20 g's discontinuity < 1 microsecond
- Thermal Vacuum Outgassing: _____ NASA SP-R-0022
- Contact Resistance: _____ 26 Milliohms (65 mV max @ 2.5 amp)
- Mating/Unmating Force: _____ 3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

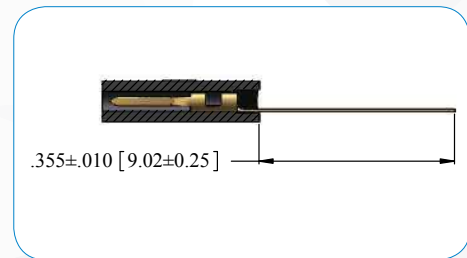
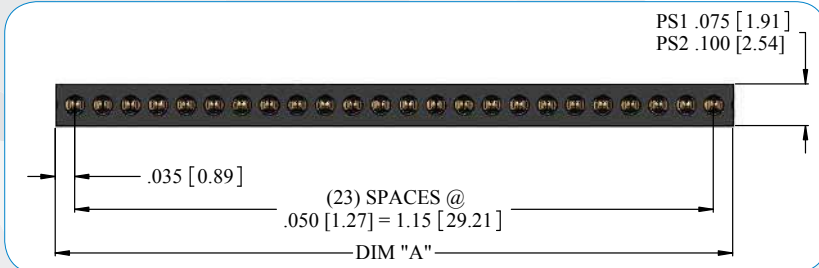
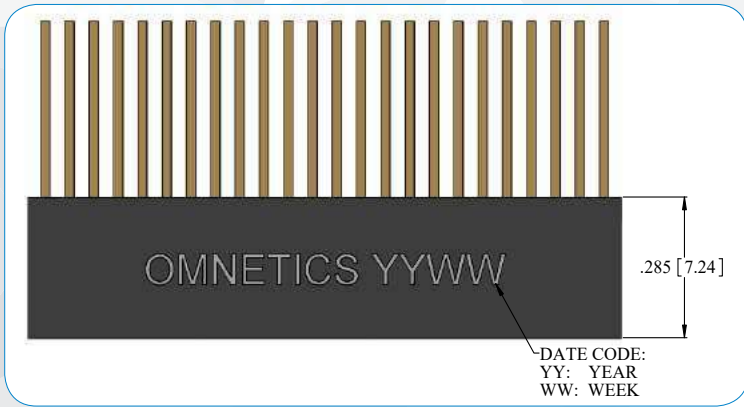
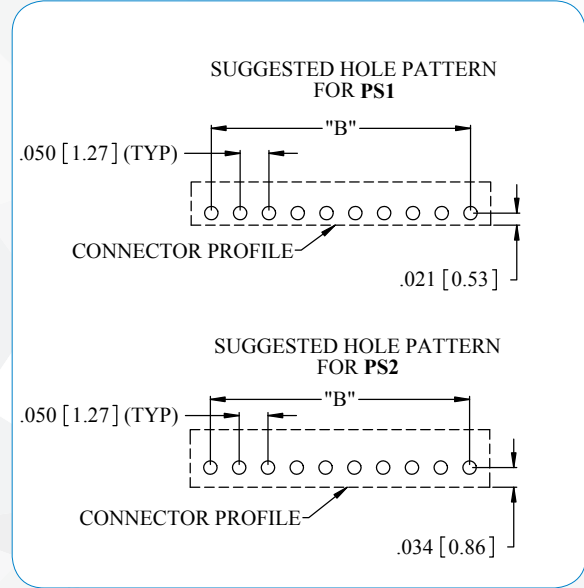
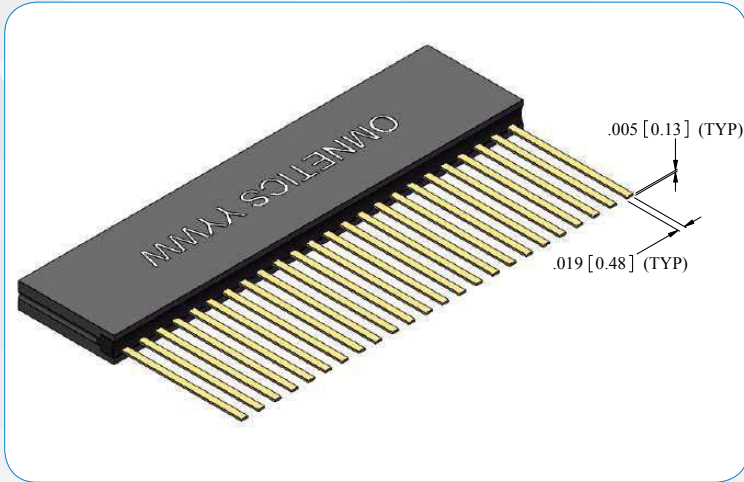
- Standard Socket PCB Tail Termination: _____ Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination: _____ Solder plated per AMS-P-81728 (Non-RoHS)
- RoHS Pin PCB Tail Termination: _____ Hard gold plate per ASTM B488
- RoHS Socket PCB Tail Termination: _____ Hard gold plate per ASTM B488

- Insulator: _____ Polyphenylene Sulfide per MIL-M-24519
- Pin: _____ Gold Plated BeCu
- Socket: _____ Gold Plated Copper Alloy
- Encapsulant: _____ Epoxy

Single Row Micro Strip

PS1/PS2-DD LAYOUT

10



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post hole	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71) Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

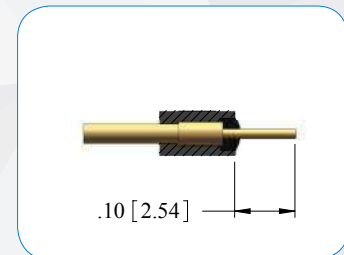
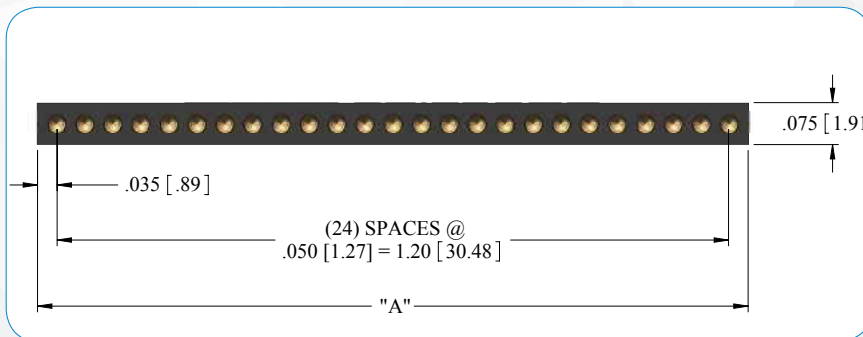
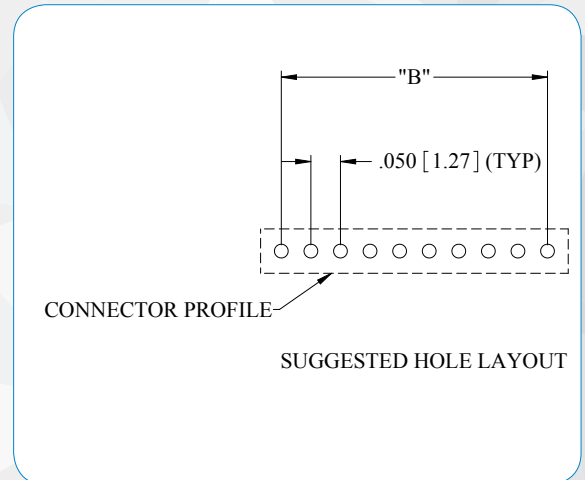
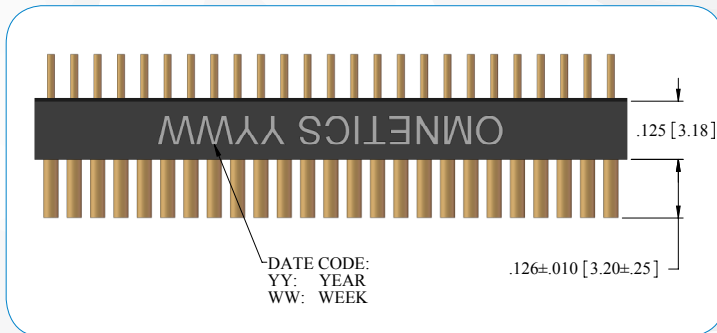
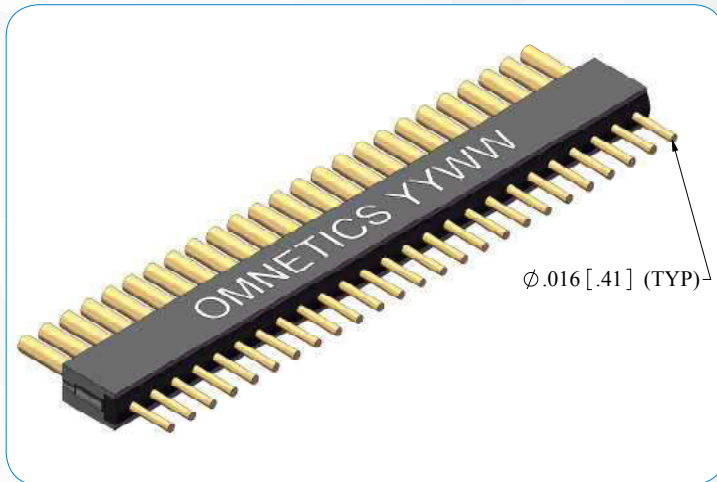
Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____

Notes: Maximum hole pattern layout length for PS1 is 2.35" (59.69). Maximum hole pattern layout length for PS2 is 2.95" (74.93) Add .100" from center of mounting hole to first hole (if the first contact cavity is used for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

SSB-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____

Notes: Maximum pad layout length 2.35" (59.69). Add .100" from center of mounting hole to first pad (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

STRAIGHT TAIL (TYPE DD) ORDERING GUIDE

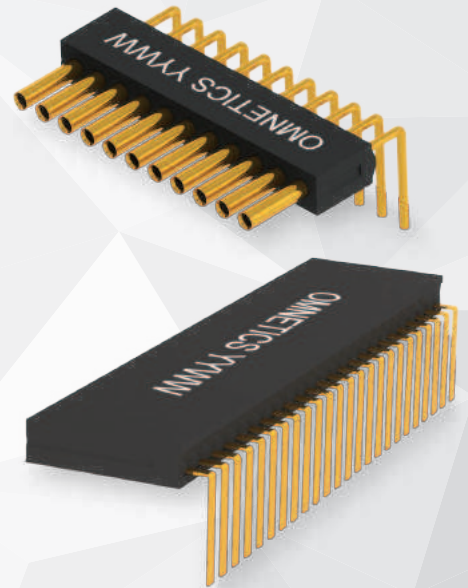
SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
PS1 PIN CONNECTOR Standard: .075" thick	02 - 48	DD	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES  
PS2 PIN CONNECTOR .100" thick		 	LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT)  
SSB SOCKET CONNECTOR			LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT)  
EXAMPLES:			M MOUNTING HOLE  
			HT HIGH TEMP
			RoHS RoHS COMPLIANT 
 PS1-11-DD-LT-RoHS	 SSB-25-DD		
 SSB-24-DD-LE	 SSB-17-DD-M-GS		

Single Row Micro Strip

SHORT THRU-HOLE TAIL (TYPE BB)

The Single Row .050" Micro Strip connectors are configured with three different thru-hole options depending on your board's configuration: BB-Short Thru Hole, H2-Short/Long Alt, and CC-Long Thru Hole. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.



13

ELECTRO-MECHANICAL SPECS

- Durability: 2000 Cycles
- Temperature: -55°C to +125 °C (200 °C w/HTE)
- Current rating: 3 AMPs max per contact
- Voltage Rating (DWV): 600 VAC RMS Sea Level
- Insulation Resistance: 5000 Megohms min @ 500 VDC
- Shock: 50 g's discontinuity < 1 microsecond
- Vibration: 20 g's discontinuity < 1 microsecond
- Thermal Vacuum Outgassing: NASA SP-R-0022
- Contact Resistance: 26 Milliohms (65 mV max @ 2.5 amp)
- Mating/Unmating Force: 3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

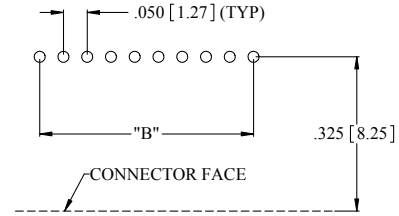
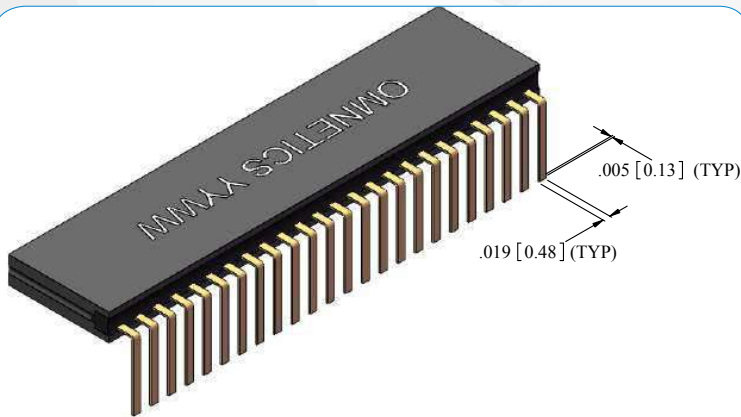
- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination: Solder plated per AMS-P-81728 (Non-RoHS)
- RoHS Pin PCB Tail Termination: Hard gold plated per ASTM B488
- RoHS Socket PCB Tail Termination: Hard gold plated per ASTM B488

- Insulator: Polyphenylene Sulfide per MIL-M-24519
- Pin: Gold Plated BeCu
- Socket: Gold Plated Copper Alloy
- Encapsulant: Epoxy

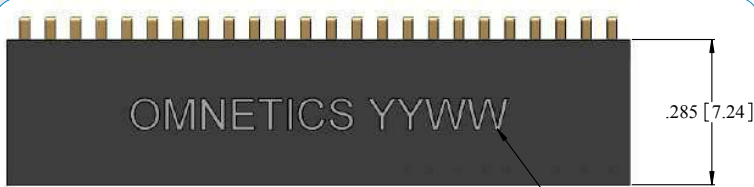
Single Row Micro Strip

PS1/PS2-BB LAYOUT

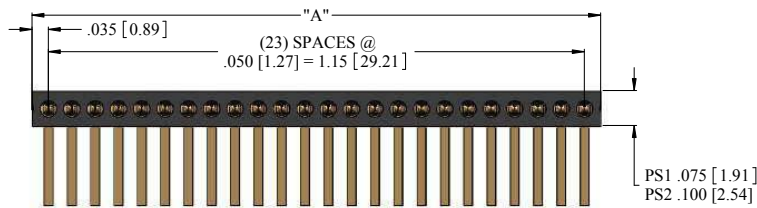
14



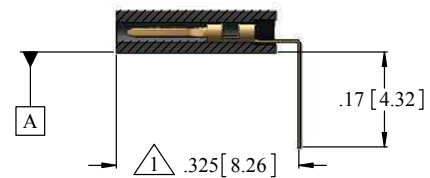
SUGGESTED HOLE PATTERN



DATE CODE:
YY: YEAR
WW: WEEK



△ TAIL DIMENSIONS APPLY AT PLANE A



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post hole	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71) Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

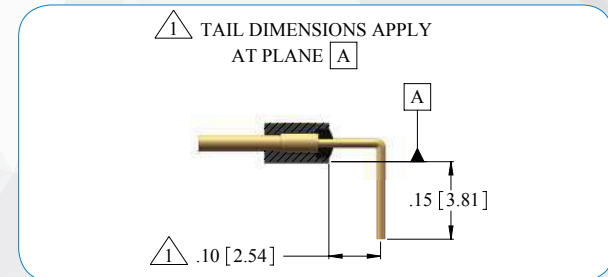
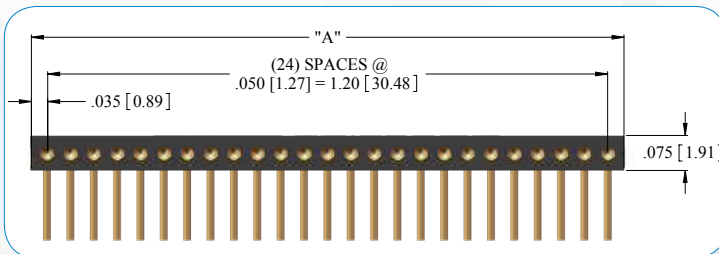
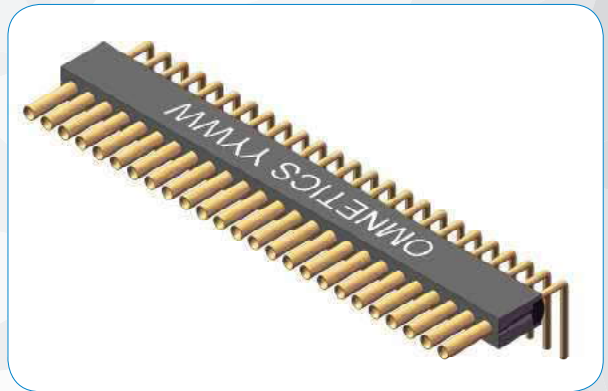
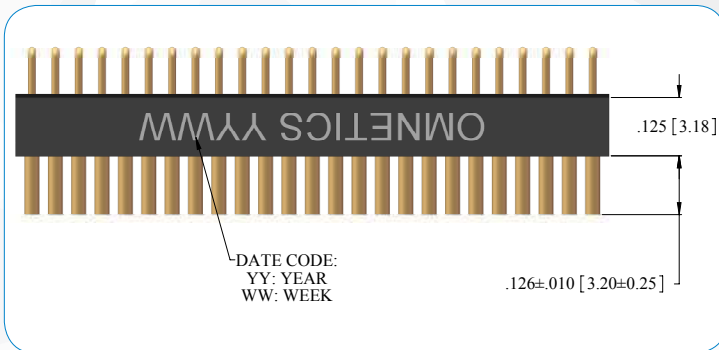
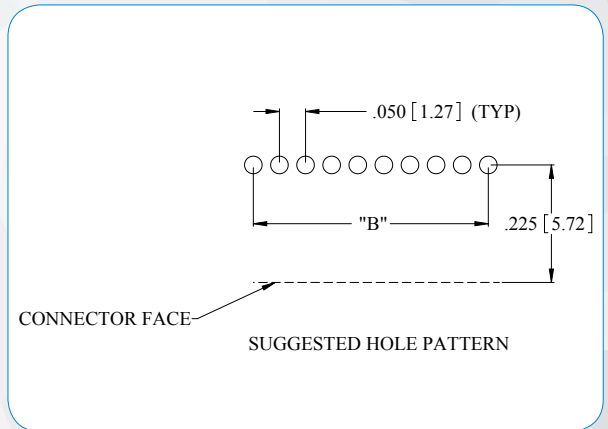
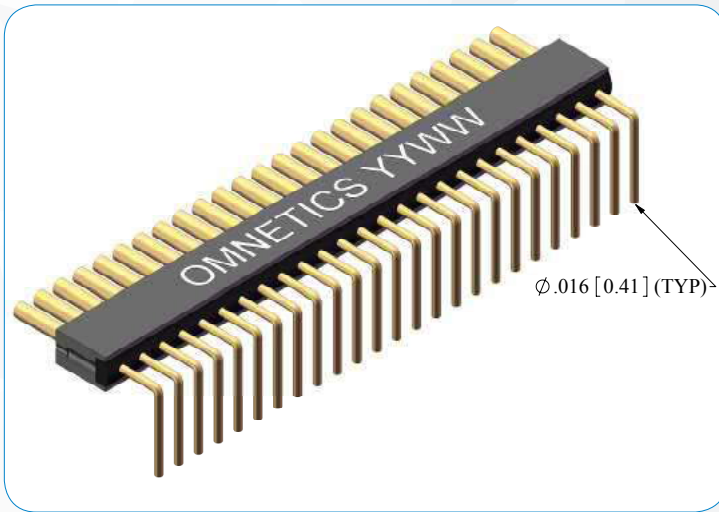
Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____

Notes: Maximum hole pattern layout length for PS1 is 2.35" (59.69). Maximum hole pattern layout length for PS2 is 2.95" (74.93). Add .100" from center of mounting hole to first hole (if the first contact cavity is used for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

SSB-BB LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____

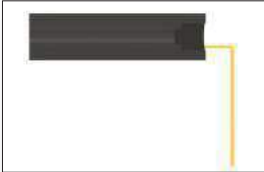
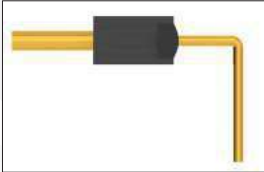








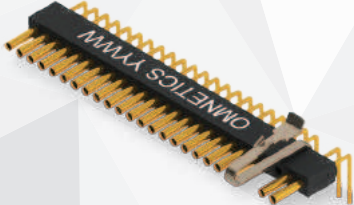


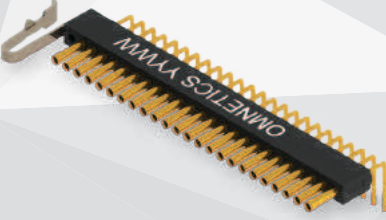




Notes: Maximum hole layout length 2.35" (59.69).
Add .100" from center of mounting hole to first hole (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

SHORT THRU HOLE TAIL (TYPE BB) ORDERING GUIDE

16

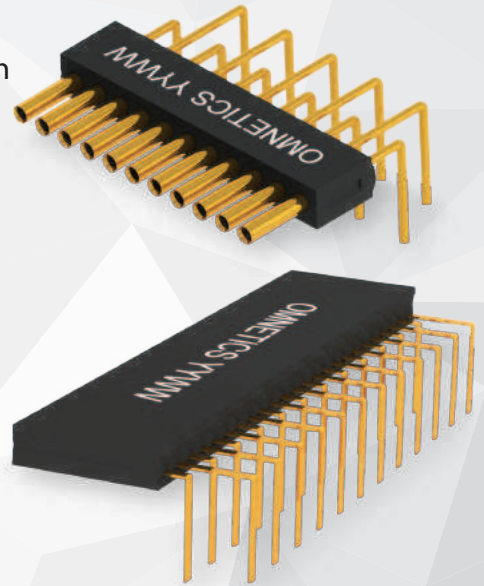
SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
PS1 PIN CONNECTOR Standard: .075" thick	02 - 48	BB  	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES  
PS2 PIN CONNECTOR .100" thick			LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT)  
SSB SOCKET CONNECTOR 			LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT)  
EXAMPLES:  			M MOUNTING HOLE  
PS1/PS2-10-BB-LES 	SSB-24-BB-LT 		HT HIGH TEMP  
SSB-24-BB-LE	SSB-17-BB-M-GS		RoHS RoHS COMPLIANT 

Single Row Micro Strip

SHORT/LONG ALT. THRU-HOLE (TYPE H2)

The Single Row .050" Micro Strip connectors are configured with three different thru-hole options depending on your board's configuration: BB-Short Thru Hole, H2-Short/Long Alt, and CC-Long Thru Hole. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.



17

ELECTRO-MECHANICAL SPECS

- Durability: 2000 Cycles
- Temperature: -55°C to +125 °C (200 °C w/HTE)
- Current rating: 3 AMPS max per contact
- Voltage Rating (DWV): 600 VAC RMS Sea Level
- Insulation Resistance: 5000 Megohms min @ 500 VDC
- Shock: 50 g's discontinuity < 1 microsecond
- Vibration: 20 g's discontinuity < 1 microsecond
- Thermal Vacuum Outgassing: NASA SP-R-0022
- Contact Resistance: 26 Milliohms (65 mV max @ 2.5 amp)
- Mating/Unmating Force: 3 oz (85 g) typical per contact

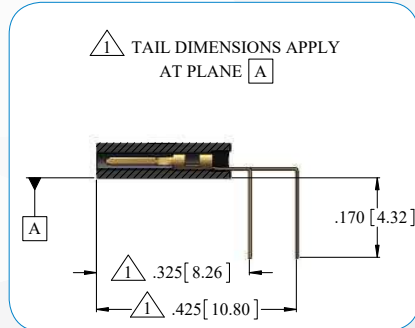
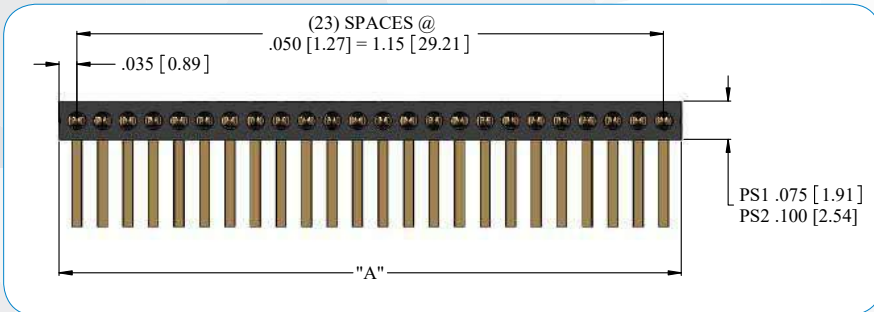
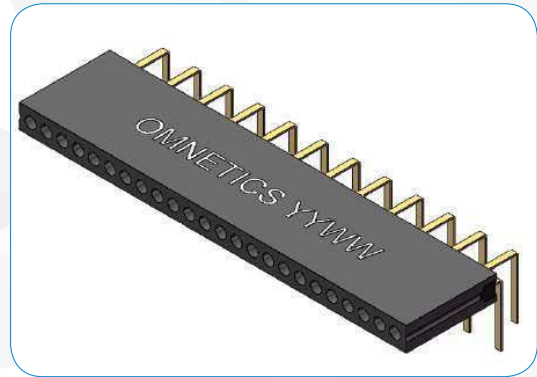
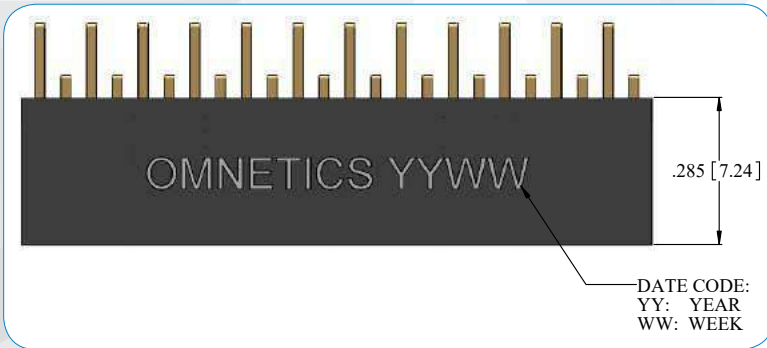
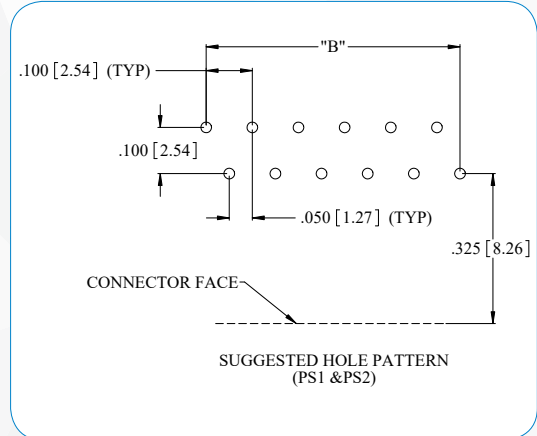
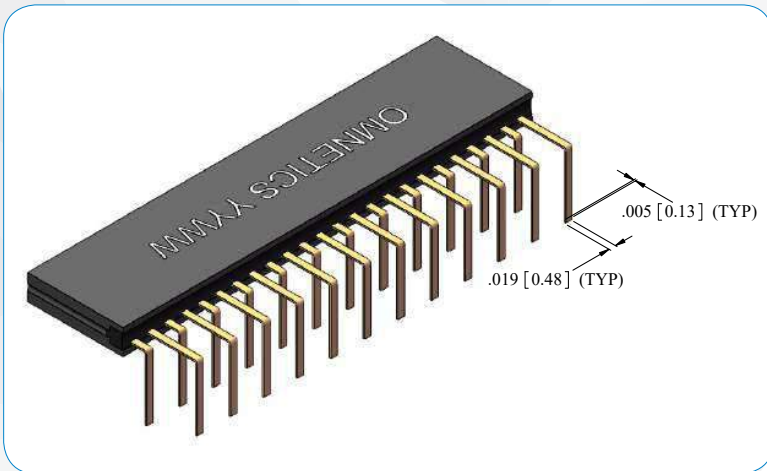
MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination: Solder plated per AMS-P-81728 (Non-RoHS)
- RoHS Pin PCB Tail Termination: Hard gold plated per ASTM B488
- RoHS Socket PCB Tail Termination: Hard gold plated per ASTM B488

- Insulator: Polyphenylene Sulfide per MIL-M-24519
- Pin: Gold Plated BeCu
- Socket: Gold Plated Copper Alloy
- Encapsulant: Epoxy

Single Row Micro Strip

PS1/PS2-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post hole	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71) Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

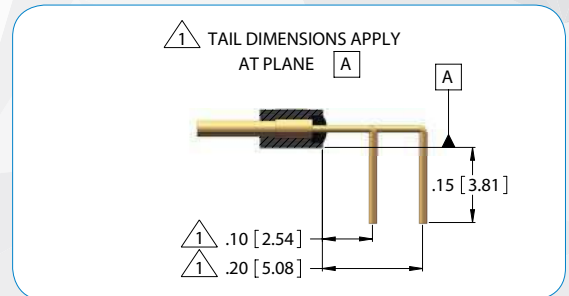
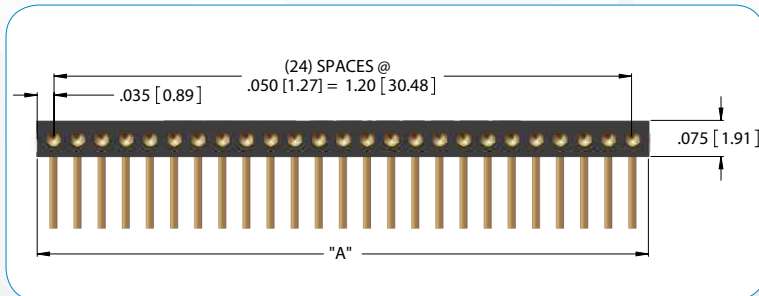
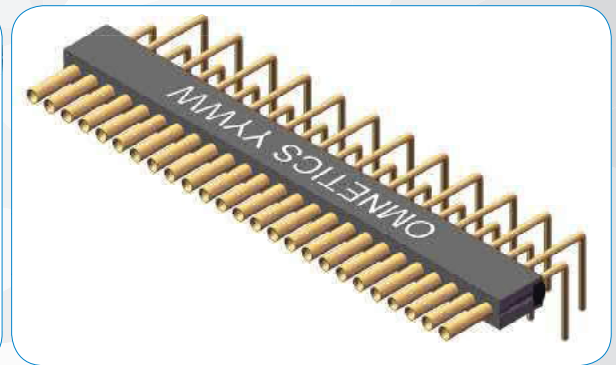
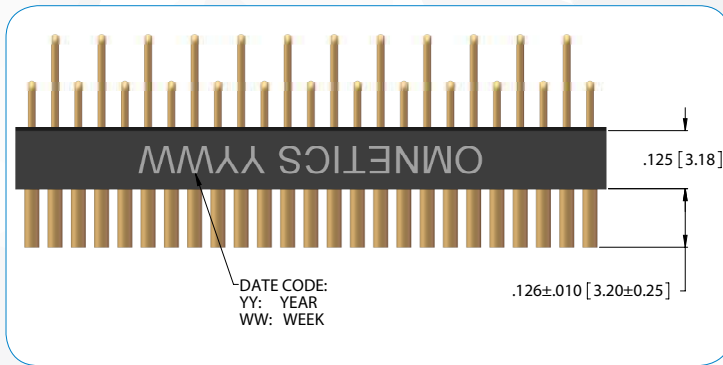
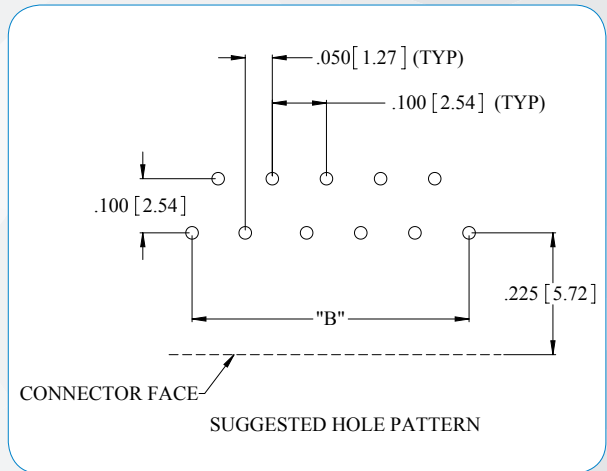
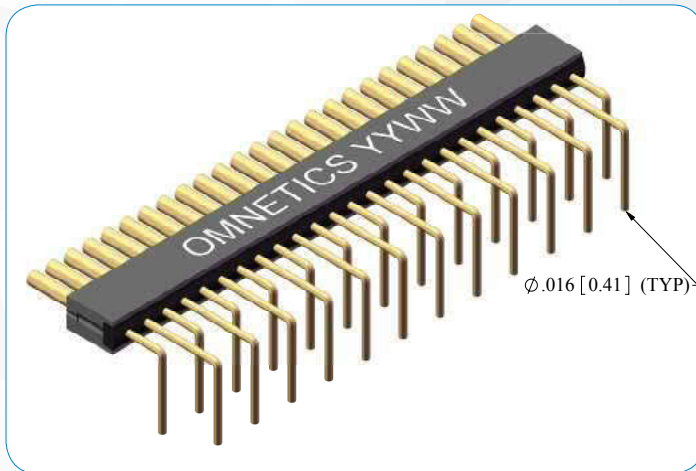
Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	_____
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____

Notes: Maximum hole pattern layout length for PS1 is 2.35" (59.69). Maximum hole pattern layout length for PS2 is 2.95" (74.93). Add .100" from center of mounting hole to first hole (if the first contact cavity is used for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

SSB-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":














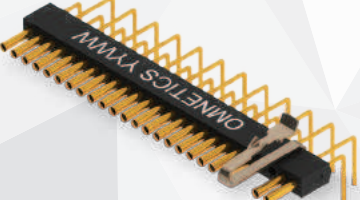

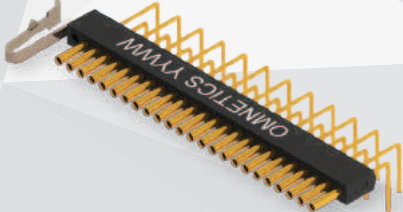

Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	_____
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____

Notes: Maximum hole layout length 2.35" (59.69). Add .100" from center of mounting hole to first hole (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

SHORT/LONG ALT. THRU HOLE TAIL (TYPE H2) ORDERING GUIDE

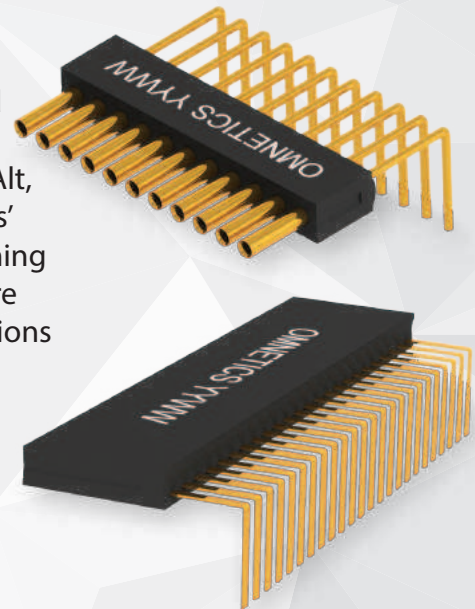
SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
PS1 PIN CONNECTOR Standard: .075" thick	02 - 48	H2	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES  
PS2 PIN CONNECTOR .100" thick			LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT)  
SSB SOCKET CONNECTOR			LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT)  
EXAMPLES:			M MOUNTING HOLE  
			HT HIGH TEMP  
			RoHS RoHS COMPLIANT 
PS1/PS2-06-H2-M	SSB-24-H2-LT		
			
SSB-24-H2-LE	SSB-17-H2-M-GS		

Single Row Micro Strip

LONG THRU-HOLE (TYPE CC)

The Single Row .050" Micro Strip connectors are configured with three different thru-hole options depending on your board's configuration: BB-Short Thru Hole, H2-Short/Long Alt, and CC-Long Thru Hole. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.



21

ELECTRO-MECHANICAL SPECS

- Durability: 2000 Cycles
- Temperature: -55°C to +125 °C (200 °C w/HTE)
- Current rating: 3 AMPS max per contact
- Voltage Rating (DWV): 600 VAC RMS Sea Level
- Insulation Resistance: 5000 Megohms min @ 500 VDC
- Shock: 50 g's discontinuity < 1 microsecond
- Vibration: 20 g's discontinuity < 1 microsecond
- Thermal Vacuum Outgassing: NASA SP-R-0022
- Contact Resistance: 26 Milliohms (65 mV max @ 2.5 amp)
- Mating/Unmating Force: 3 oz (85 g) typical per contact

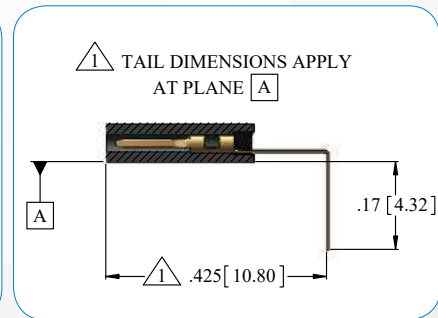
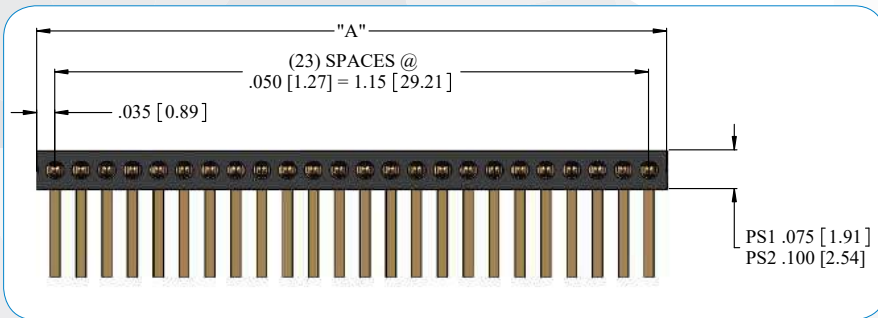
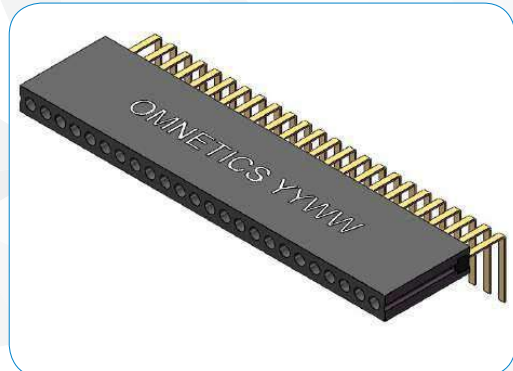
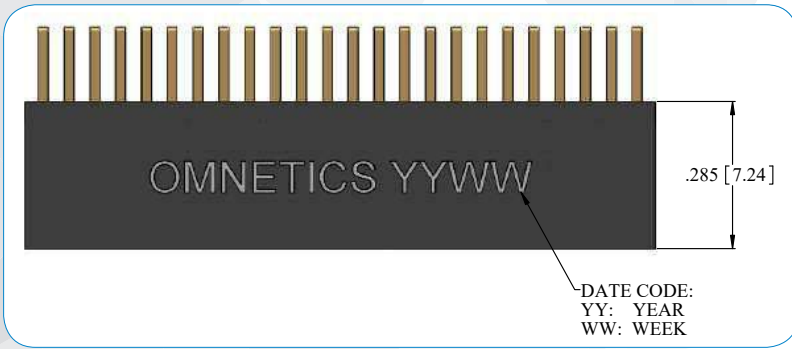
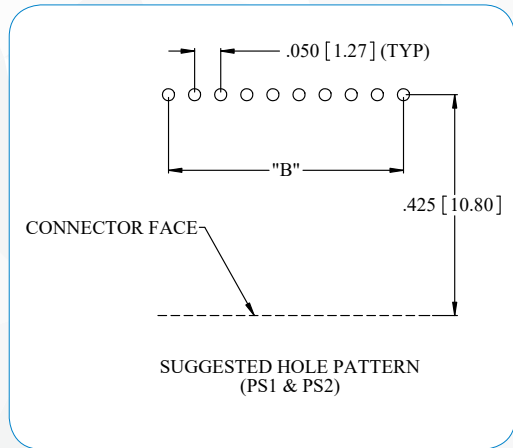
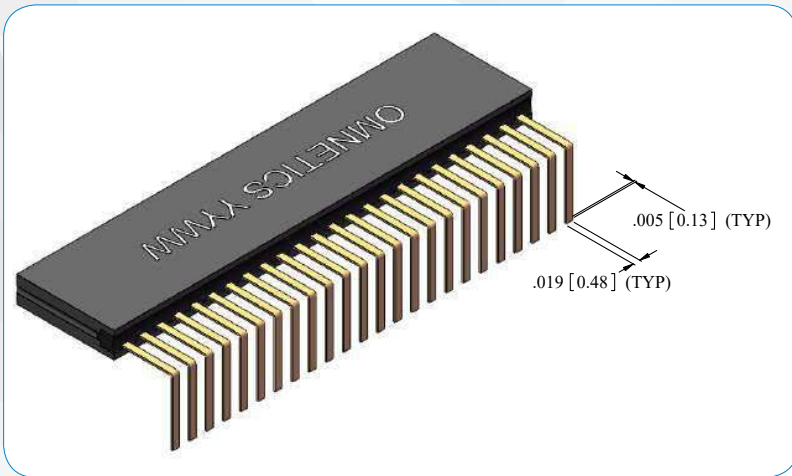
MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination: Solder plated per AMS-P-81728 (Non-RoHS)
- RoHS Pin PCB Tail Termination: Hard gold plated per ASTM B488
- RoHS Socket PCB Tail Termination: Hard gold plated per ASTM B488

- Insulator: Polyphenylene Sulfide per MIL-M-24519
- Pin: Gold Plated BeCu
- Socket: Gold Plated Copper Alloy
- Encapsulant: Epoxy

Single Row Micro Strip

PS1/PS2-CC LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post hole	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71) Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

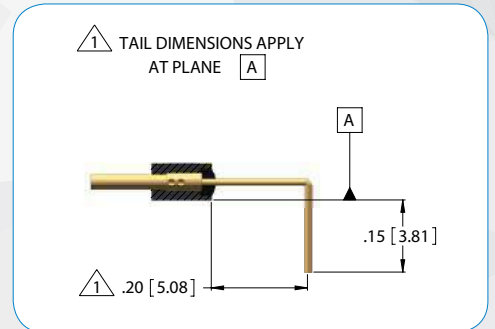
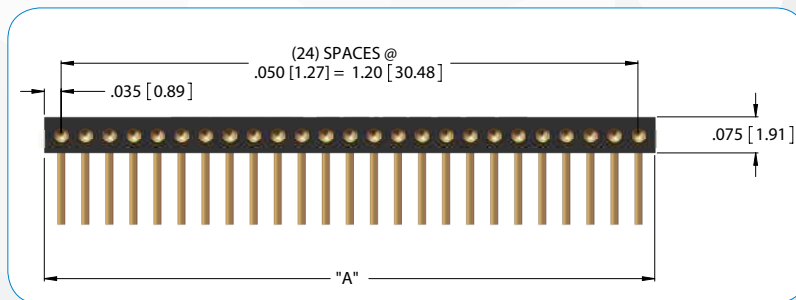
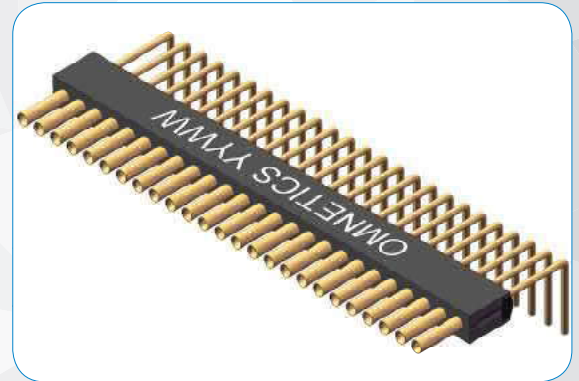
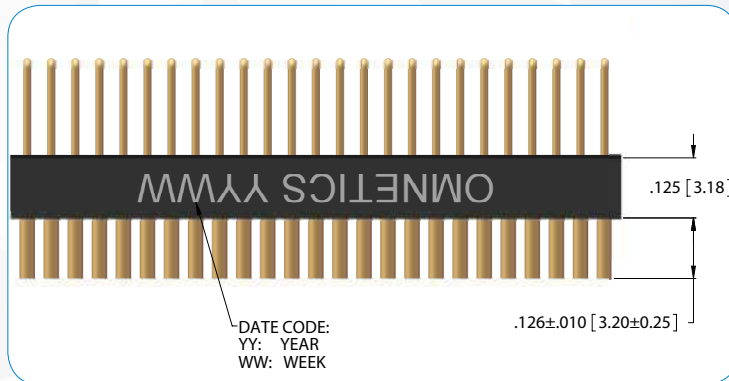
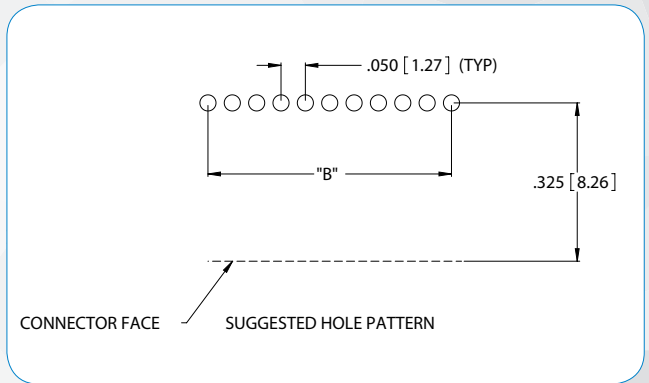
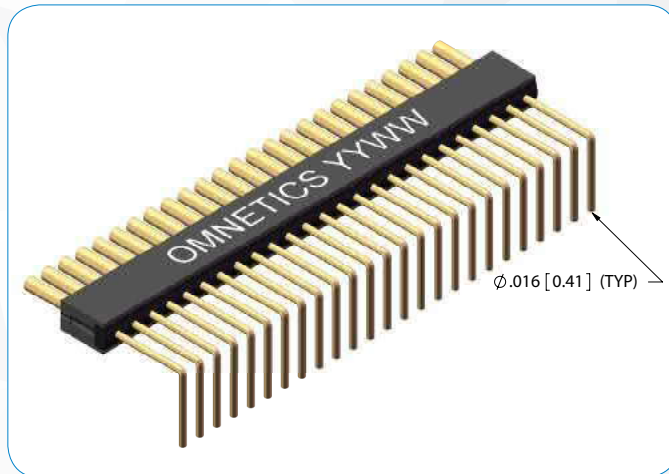
Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____

Notes: Maximum hole pattern layout length for PS1 is 2.35" (59.69). Maximum hole pattern layout length for PS2 is 2.95" (74.93). Add .100" from center of mounting hole to first hole (if the first contact cavity is used for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

SSB-CC LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post	_____
Total contact cavities	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

Multiply the number of contact cavities minus 1 by .050"	_____
If hardware features are within the contact area:	_____
Add .050" (1 contact cavity) for each latch	_____
Add .050" (1 contact cavity) for each guide post	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Total Length (Dimension B)	_____




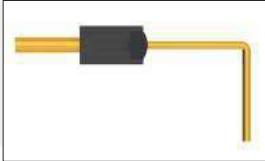






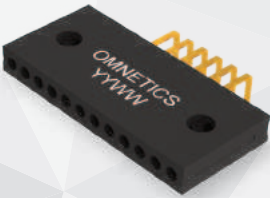
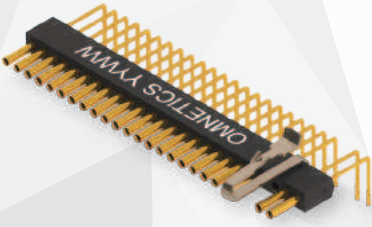


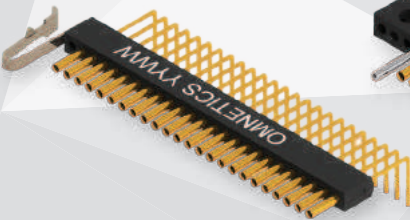


Notes: Maximum hole layout length 2.35" (59.69).

Add .100" from center of mounting hole to first hole (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

LONG THRU HOLE TAIL (TYPE CC) ORDERING GUIDE

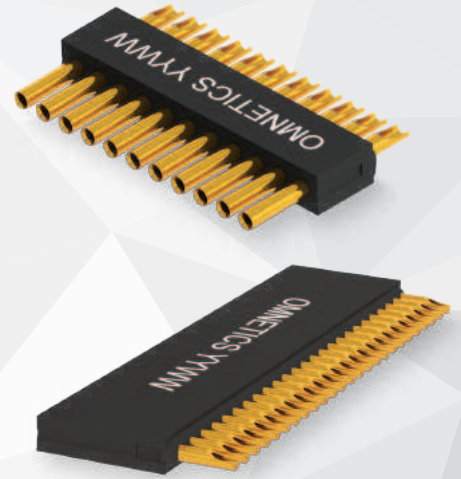
SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
PS1 PIN CONNECTOR Standard: .075" thick	02 - 48	CC	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES  
PS2 PIN CONNECTOR .100" thick		 	LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT)  
SSB SOCKET CONNECTOR			LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT)  
EXAMPLES:			M MOUNTING HOLE  
 PS1 -06-CC-M	 SSB-24-CC-LT		HT HIGH TEMP  
 SSB-24-CC-LE	 SSB-17-CC-M-GS		RoHS RoHS COMPLIANT 

Single Row Micro Strip

SOLDERCUP (TYPE SS)

Single Row Micro Strip connectors are available in soldercup configurations. The soldercup tails are commonly used within hand soldering applications, and/or specific wire based devices that require a small robust connector during one of the final phases of production. These connectors feature Omnetics' gold plated Flex Pin contact system that conforms to the requirements of MIL-DTL-83513.

Micro Strip connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations and accept 26 AWG or smaller stranded wire.



25

ELECTRO-MECHANICAL SPECS

- Durability: 2000 Cycles
- Temperature: -55°C to +125 °C (200 °C w/HTE)
- Current rating: 3 AMPs max per contact
- Voltage Rating (DWV): 600 VAC RMS Sea Level
- Insulation Resistance: 5000 Megohms min @ 500 VDC
- Shock: 50 g's discontinuity < 1 microsecond
- Vibration: 20 g's discontinuity < 1 microsecond
- Thermal Vacuum Outgassing: NASA SP-R-0022
- Contact Resistance: 26 Milliohms (65 mV max @ 2.5 amp)
- Mating/Unmating Force: 3 oz (85 g) typical per contact

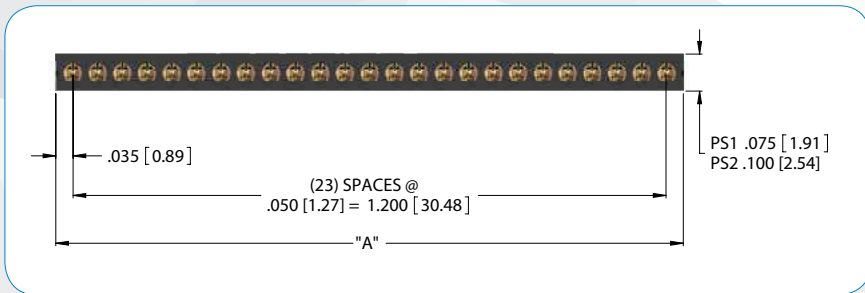
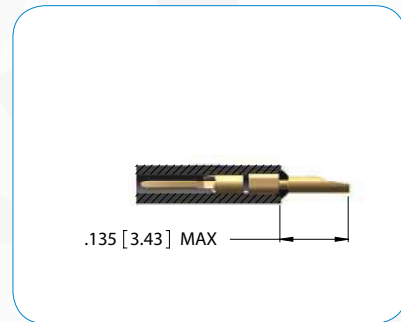
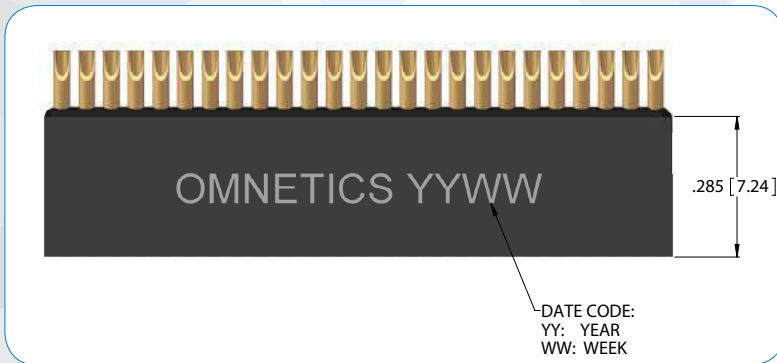
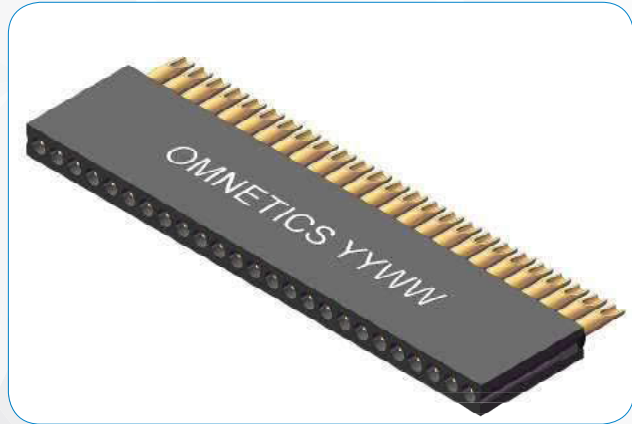
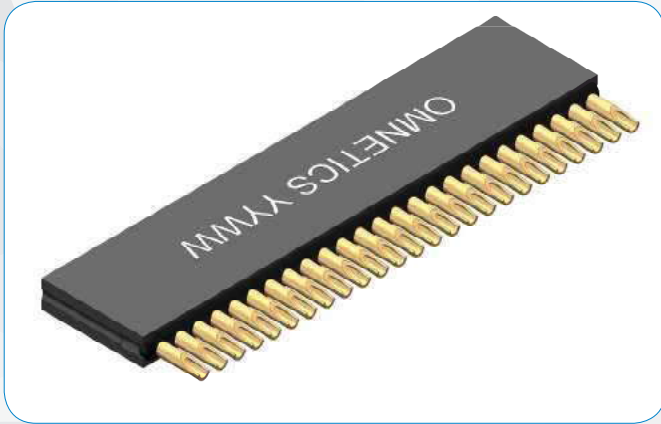
MATERIAL SPECIFICATIONS

- Standard Socket Soldercup Termination: Hard Gold Plated per ASTM B488
- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS)
- Standard Soldercup Termination: Solder plated per AMS-P-81728 (Non-RoHS)
- RoHS Pin Soldercup Termination: Hard gold plated per ASTM B488
- RoHS Socket Soldercup Termination: Hard gold plated per ASTM B488

- Insulator: Polyphenylene Sulfide per MIL-M-24519
- Pin: Gold Plated BeCu
- Socket: Gold Plated Copper Alloy
- Encapsulant: Epoxy

Single Row Micro Strip

PS1/PS2-SS LAYOUT



DIMENSIONS FOR "A"

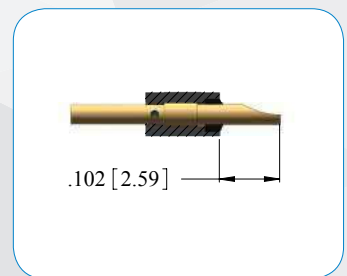
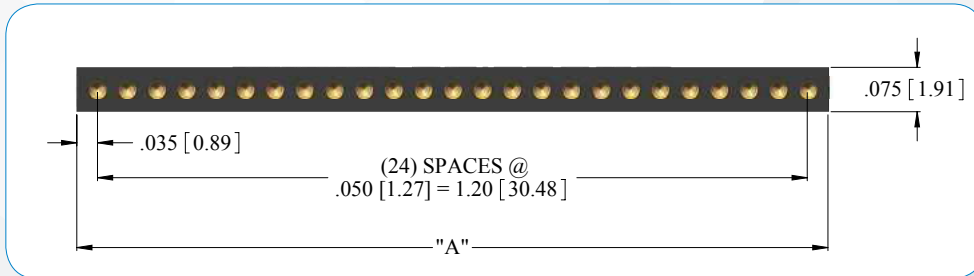
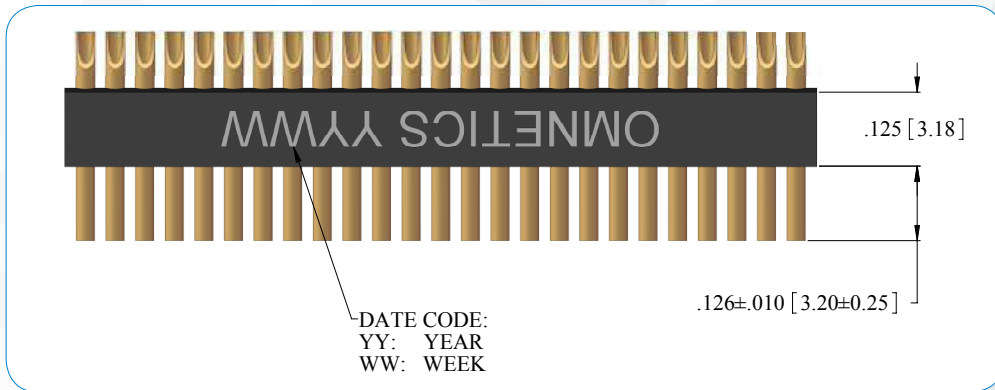
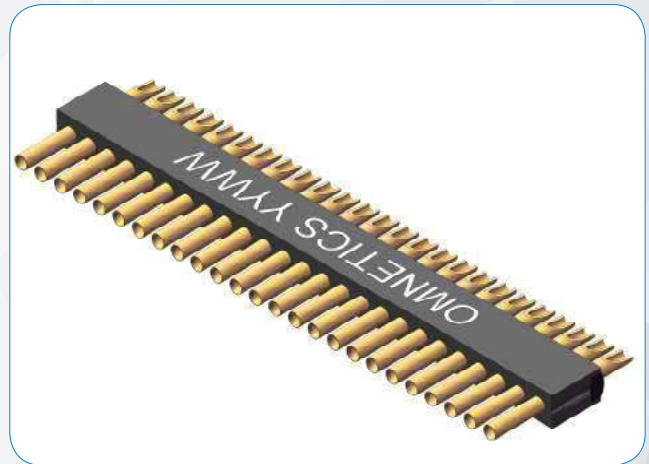
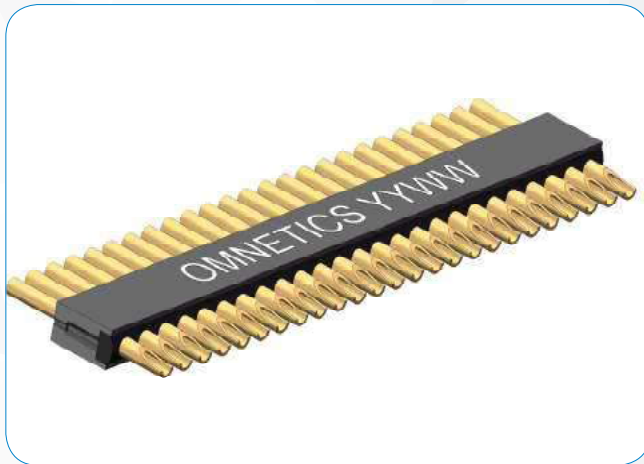
To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post hole	_____
Total contact cavities	_____
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length constant	.070"
Total Length (Dimension A)	_____

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71). Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

SSB-SS LAYOUT



DIMENSIONS FOR "A"


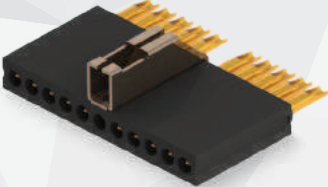
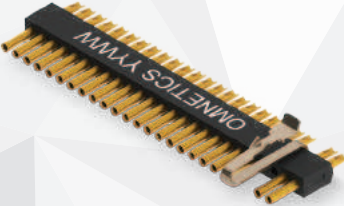
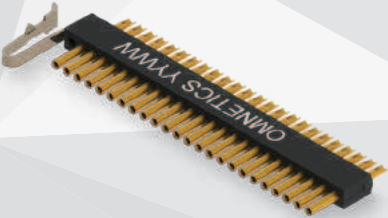

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post	_____
Total contact cavities	_____
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

SOLDER CUP (TYPE SS) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
PS1 PIN CONNECTOR Standard: .075" thick	02 - 48	SS	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES
PS2 PIN CONNECTOR .100" thick			LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT)
SSB SOCKET CONNECTOR			LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT)
EXAMPLES:			M MOUNTING HOLE
			HT HIGH TEMP
			RoHS RoHS COMPLIANT
			
 PS1-10-SS-LT	 SSB-24-SS-LT		
 SSB-24-SS-LE	 SSB-17-SS-M-GS		

Single Row Micro Strip

PRE-WIRED/CABLE (TYPE WD/WC)

Pre-wired Single Row Micro Strip connectors are available with 26 AWG to 32 AWG stranded wire. These assemblies are crimped using proprietary semi-automated crimping systems. Due to their small size and precision required to make these quality crimps, hand crimping is not an option. Pre-crimped wires and contacts are potted in place, further protecting the integrity of the crimp joint. Building these parts to order allows for maximum flexibility in wire type, size and color coding. Commercial Off The Shelf (COTS) versions are also available with 18" of color coded 26 AWG Teflon wire for quick turn around.

These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations, and accept 26 AWG or smaller stranded wire.

ELECTRO-MECHANICAL SPECS

- Durability: 2000 Cycles
- Temperature: -55°C to +125 °C (200 °C w/HTE)
- Current rating: 3 AMPs max per contact
- Voltage Rating (DWV): 600 VAC RMS Sea Level
- Insulation Resistance: 5000 Megohms min @ 500 VDC
- Shock: 50 g's discontinuity < 1 microsecond
- Vibration: 20 g's discontinuity < 1 microsecond
- Thermal Vacuum Outgassing: NASA SP-R-0022
- Contact Resistance: 26 Milliohms (65 mV max @ 2.5 amp)
- Mating/Unmating Force: 3 oz (85 g) typical per contact

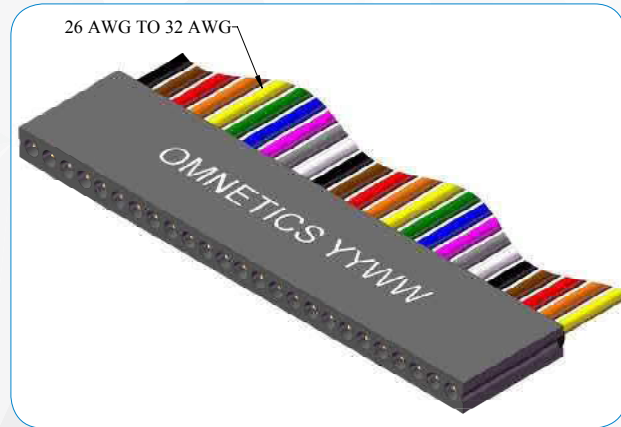
MATERIAL SPECIFICATIONS

- Standard Wire: 26 AWG, Teflon Insulated per NEMA-HP3
- Insulator: Polyphenylene Sulfide per MIL-M-24519
- Pin: Gold Plated BeCu
- Socket: Gold Plated Copper Alloy
- Encapsulant: Epoxy

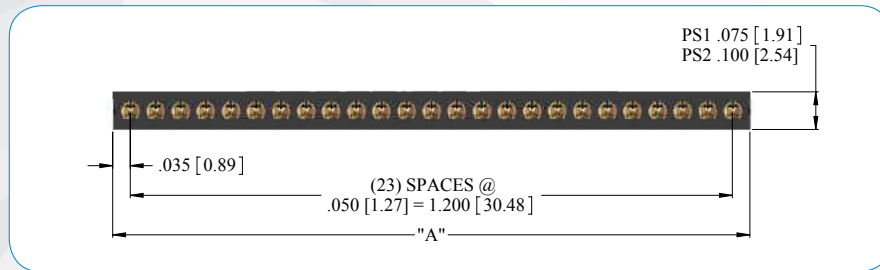
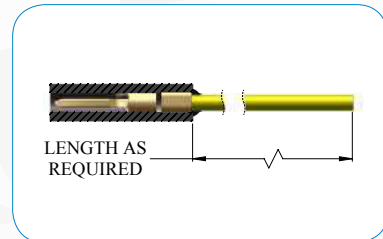
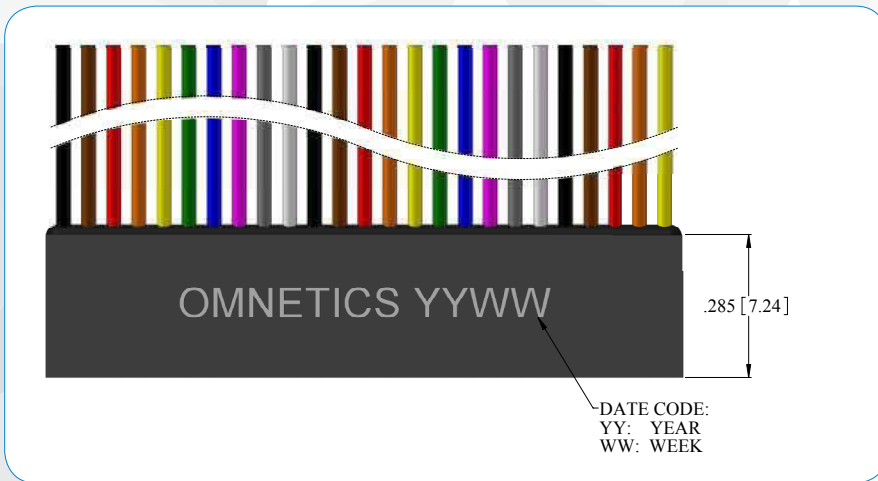
Single Row Micro Strip

PS1/PS2-WD/WC LAYOUT

30



26 AWG TO 32 AWG



DIMENSIONS FOR "A"

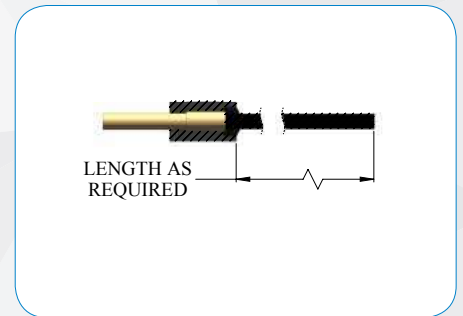
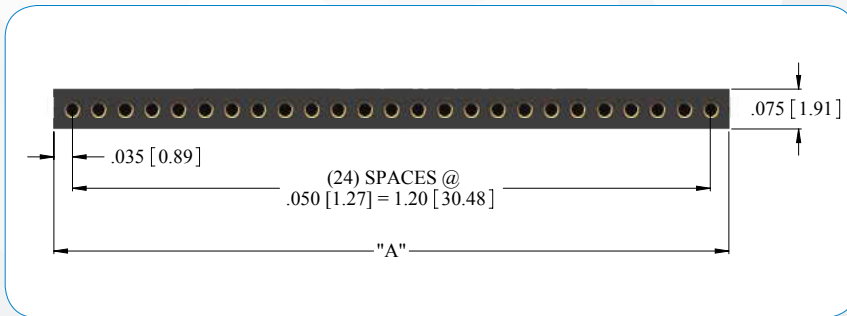
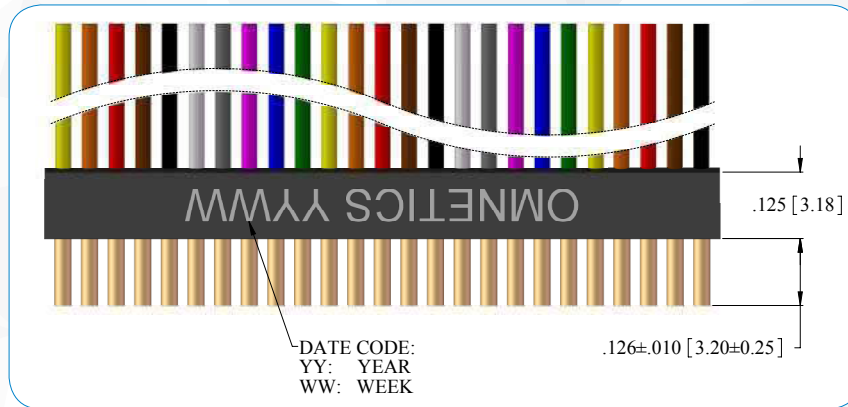
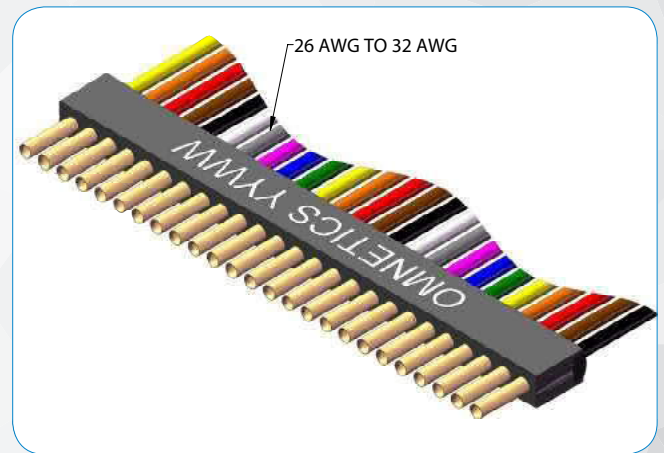
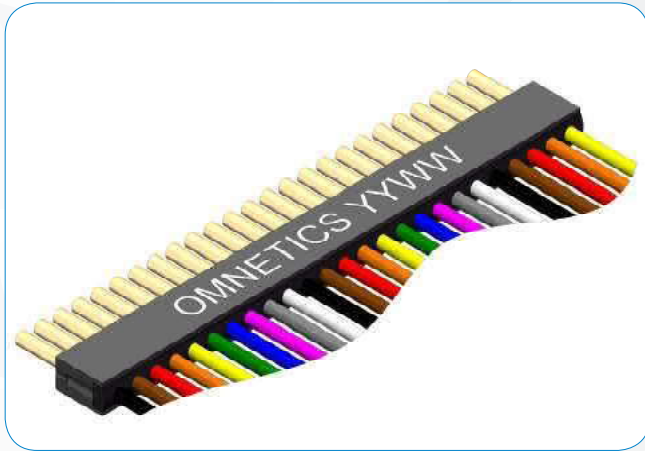
To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post hole	_____
Total contact cavities	_____
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length constant	_____ .070"
Total Length (Dimension A)	_____

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71). Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

SSB-WD/WC LAYOUT



DIMENSIONS FOR "A"





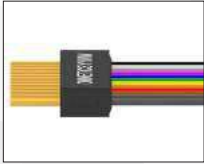

To determine connector length "A":

Add the total number of contacts	_____
Add 1 contact cavity for each latch	_____
Add 1 contact cavity for each guide post	_____
Total contact cavities	_____
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	_____
Add .150" (3 contact cavities) for each mounting hole	_____
Add fixed end length	.070"
Total Length (Dimension A)	_____

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Single Row Micro Strip

PRE-WIRED/CABLE (TYPE WD/WC) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	WIRE LENGTH	COLOR CODED	COMMON OPTIONS
PS1 PIN CONNECTOR Standard: .075" thick	02 - 48	WD DISCRETE WIRES	18.00 =18.00" STANDARD	C 10 REPEATING COLORS PER MIL-STD 681	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES
PS2 PIN CONNECTOR .100" thick		TW TWISTED WIRES	XX.XX CUSTOM LENGTH i.e. 23.4"		 LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT)
SSB SOCKET CONNECTOR		WC CABLE	26 AWG Standard/ MAX	Y ALL OTHER WIRE COLORS	 LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT)
		WX MULTIPLE WIRE TYPES			 M MOUNTING HOLE
					 HT HIGH TEMP

EXAMPLES:

PS1/PS2-11-WD-18.00-C-M-GS SSB-24-WD-18.0-C-LT

SSB-17-WD-18.0-C-M-GS

RoHS
RoHS
COMPLIANT

