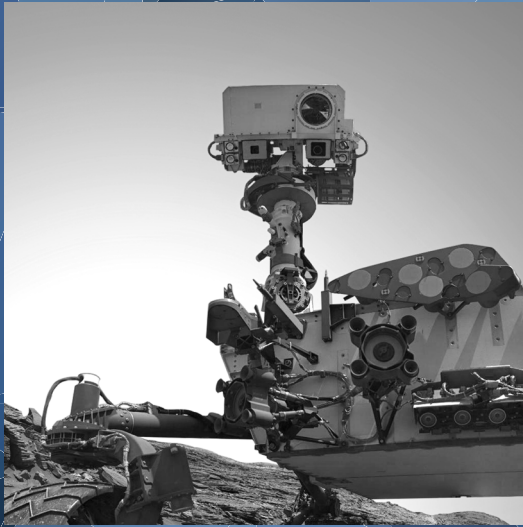


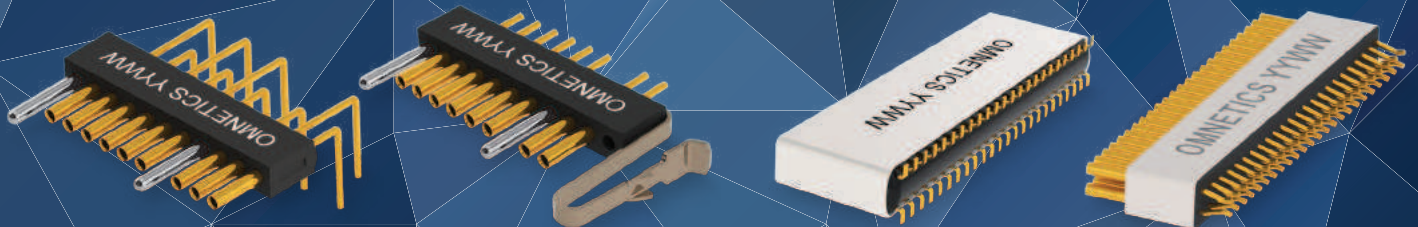
OMNETICS

CONNECTOR CORPORATION



MICRO & NANO STRIP CONNECTORS

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

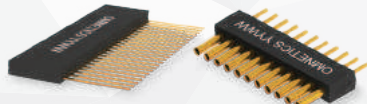


Micro Strip Picture Index

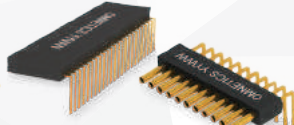
SINGLE ROW MICRO STRIP (PS1/PS2/SSB) SERIES:



Horizontal SMT (AA)
Pages 5-8



Straight Tail (DD)
Pages 9-12



Short Thru-Hole (BB)
Pages 13-16



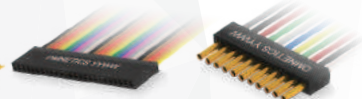
Short/Long Alt. Thru-Hole (H2)
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Long Thru-Hole (CC)
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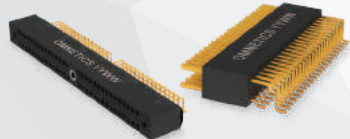


Solder Cup (SS)
Pages 25-28

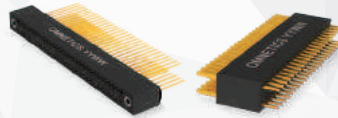


Pre-Wired (WD)
Pages 29-32

DUAL ROW MICRO STRIP (DRP/DRS) SERIES:



Horizontal SMT (AA)
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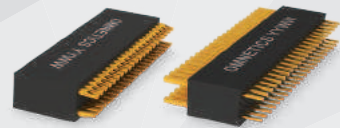
Straight Tail (DD)
Pages 37-40



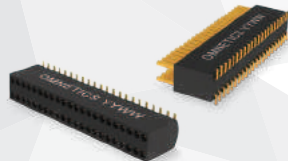
Flex Tail (FF)
Pages 41-43



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



Solder Cup (SS)
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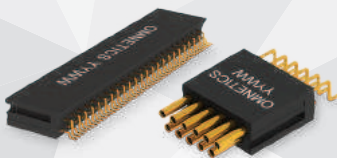


Vertical SMT (VV)
Pages 52-55

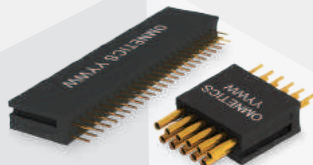


Pre-Wired (WD)
Pages 56-59

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



Horizontal SMT (AA)
Pages 60-63



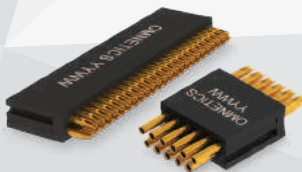
Straight Tail (DD)
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Flex Tail (FF)
Pages 68-71



Short/Long Alt. Thru-Hole (H2)
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Solder Cup (SS)
Pages 76-79



Vertical SMT (VV)
Pages 80-83



Pre-Wired (WD)
Pages 84-87

Dual 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 fixing/retention jack screws as well as mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.



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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

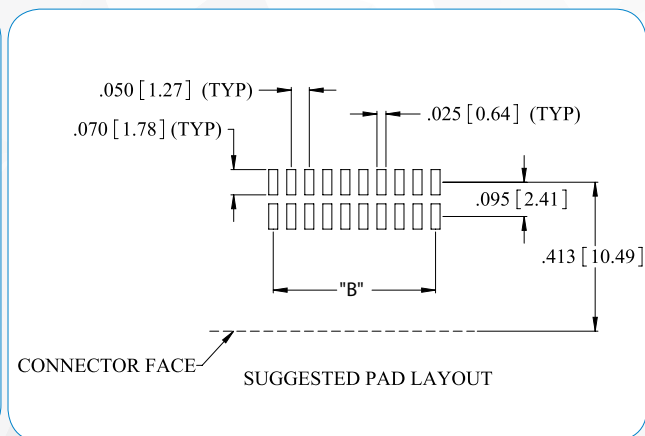
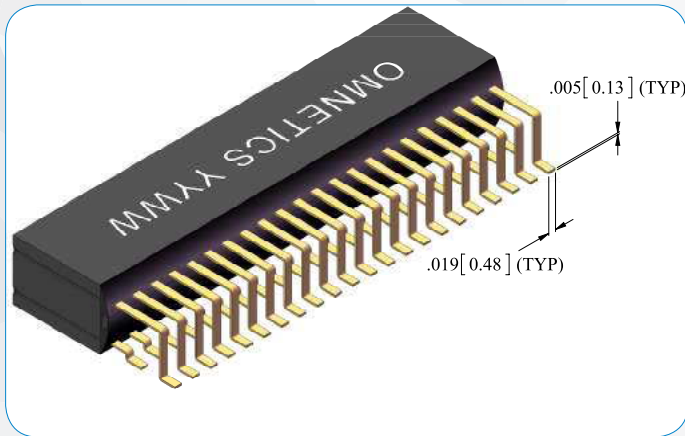
MATERIAL SPECIFICATIONS

- 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

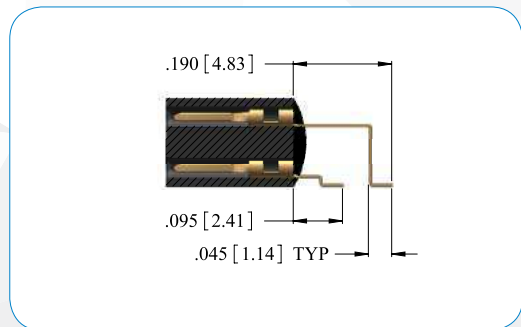
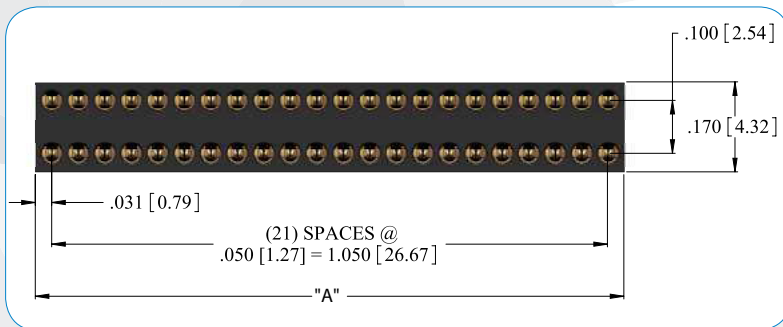
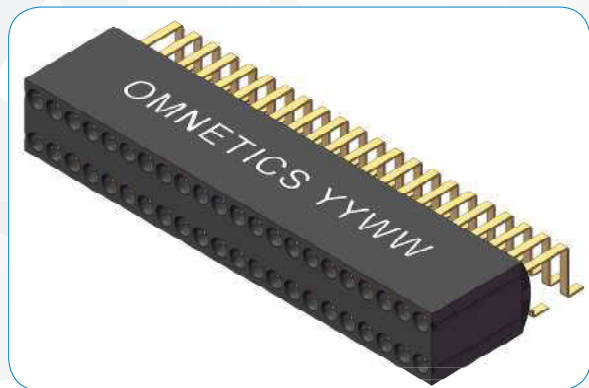
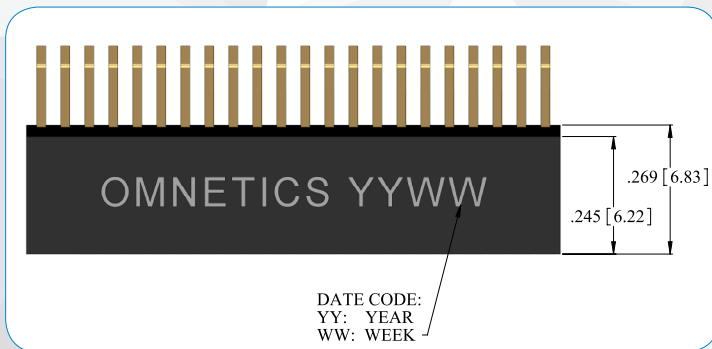
- Insulator: Polyphenylene Sulfide per MIL-M-24519
- Pin: Gold Plated BeCu
- Socket: Gold Plated Copper Alloy
- Encapsulant: Epoxy

Dual Row Micro Strip

DRP-AA LAYOUT



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DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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":

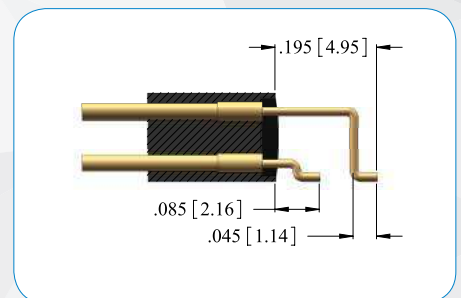
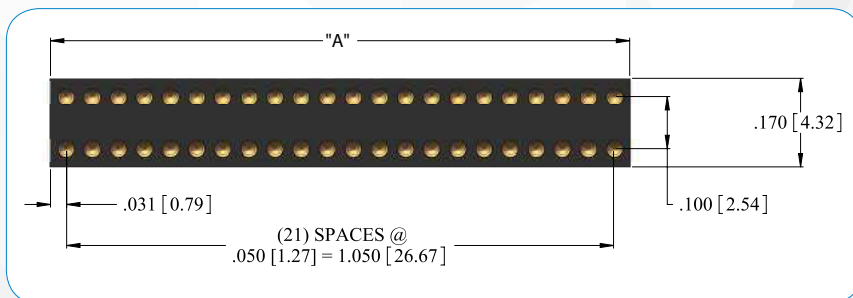
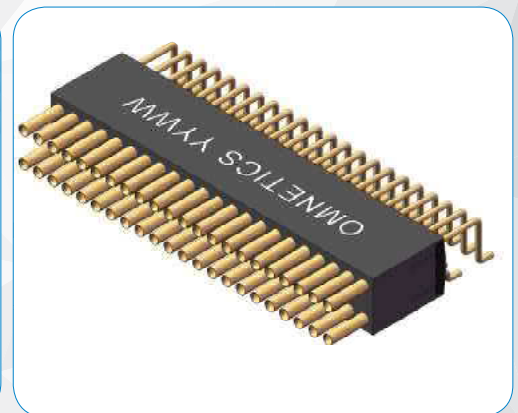
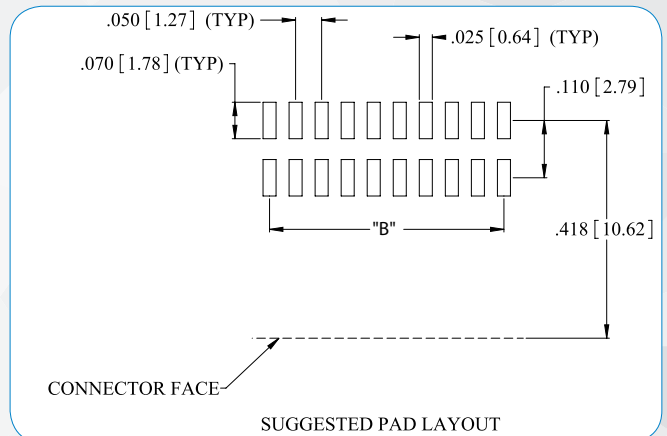
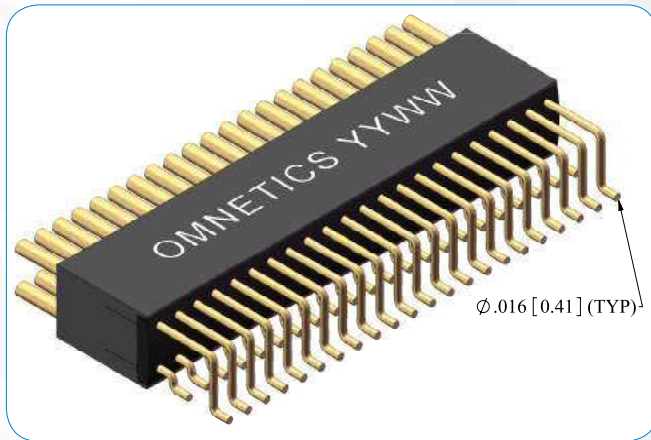
Multiply the number of contact cavities in one row minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" for each latch	_____
Add .050" for each guide post hole	_____
Add .100" for each screw receptacle	_____
Total Length (Dimension B)	_____

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

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

Dual Row Micro Strip

DRS-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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":

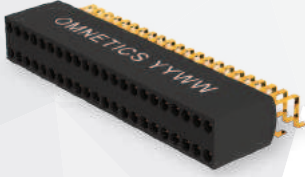









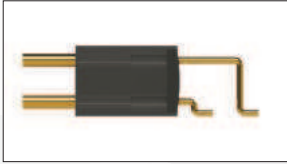
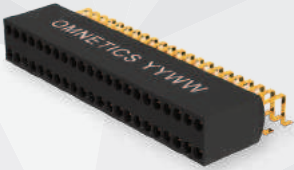


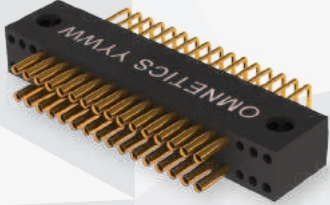
Multiply the number of contact cavities in one row minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" for each latch	_____
Add .050" for each guide post hole	_____
Add .100" for each screw receptacle	_____
Total Length (Dimension B)	_____

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

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

Dual Row Micro Strip

HORIZONTAL SMT (TYPE AA) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
DRP PIN CONNECTOR 	02 - 64	AA 	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES  LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT)  LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT)  M MOUNTING HOLE  CSR CENTER SCREW RECEPTACLE - PIN SIDE ESR END SCREW RECEPTACLE - PIN SIDE  CRS CENTER RETAINING SCREW - SOCKET SIDE ERS END RETAINING SCREW - SOCKET SIDE  CJP CENTER JACK POST - PIN SIDE EJP END JACK POST - PIN SIDE  HT HIGH TEMP
DRS SOCKET CONNECTOR 			
EXAMPLES:  	DRP-44-AA	DRS-43-AA-LT	
 	DRS-43-AA-LE	DRS-32-AA-M	

RoHS
RoHS COMPLIANT



Dual Row Micro Strip

STRAIGHT TAIL (TYPE DD)

The Dual 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 electrophysiology. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. Available with fixing/retention jack screws as well as mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations. Flex design and installation service is also available from Omnetics. Please contact us for more information.



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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

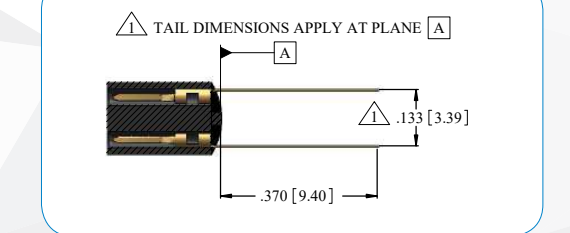
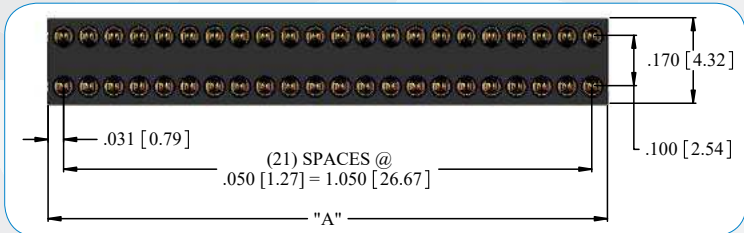
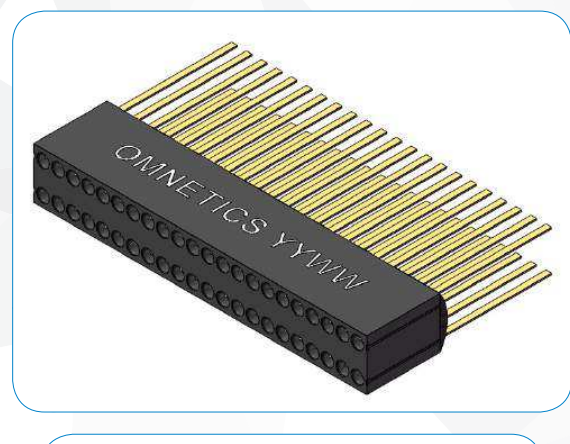
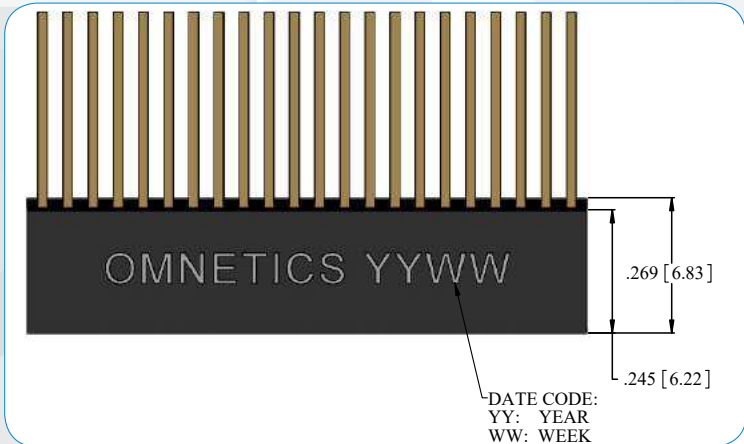
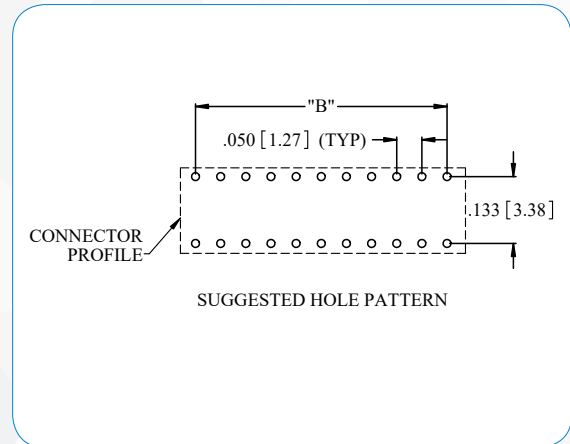
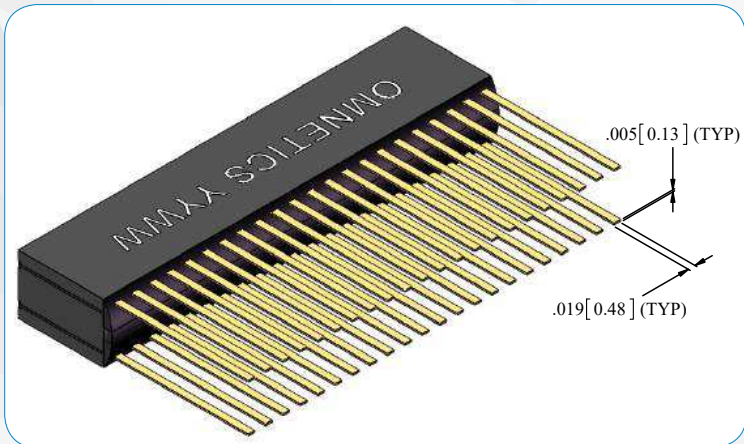
MATERIAL SPECIFICATIONS

- 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

Dual Row Micro Strip

DRP-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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":

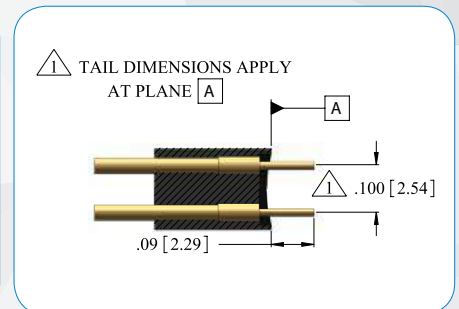
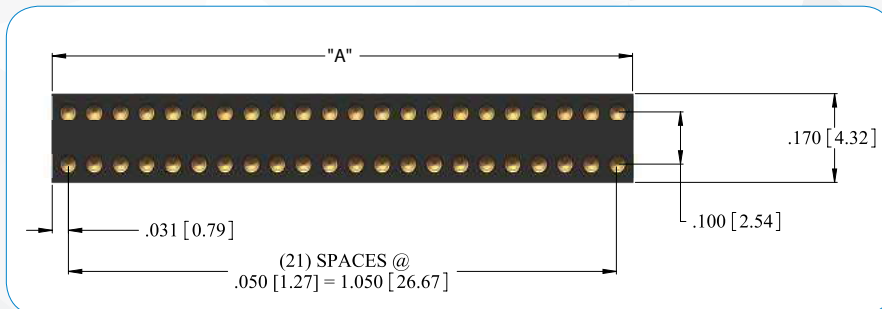
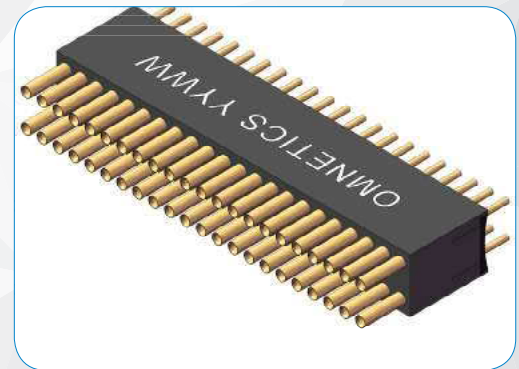
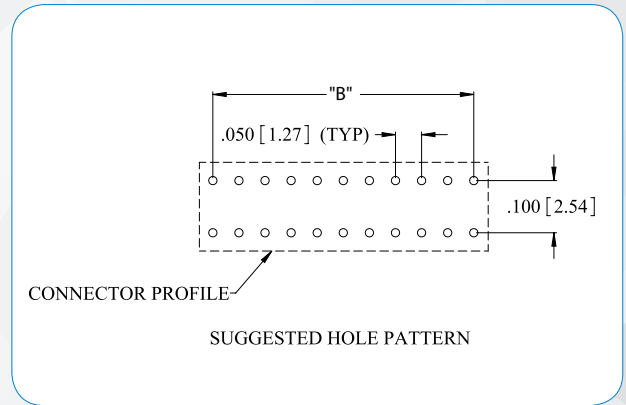
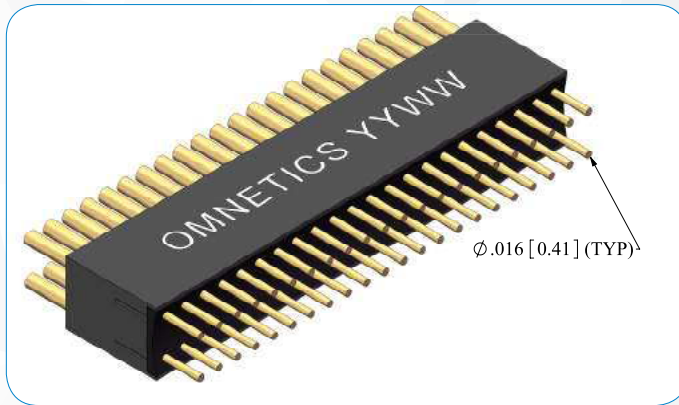
Multiply the number of contact cavities in one row minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" for each latch	_____
Add .050" for each guide post hole	_____
Add .100" for each screw receptacle	_____
Total Length (Dimension B)	_____

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

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

Dual Row Micro Strip

DRS-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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 in one row minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" for each latch	_____
Add .050" for each guide post hole	_____
Add .100" for each screw receptacle	_____
Total Length (Dimension B)	_____

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

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

Dual Row Micro Strip

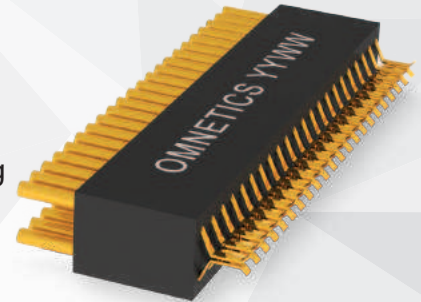
STRAIGHT TAIL (TYPE DD) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
DRP PIN CONNECTOR	02 - 64	DD	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES   LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT)   LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT)   M MOUNTING HOLE   CSR CENTER SCREW RECEPTACLE - PIN SIDE ESR END SCREW RECEPTACLE - PIN SIDE   CRS CENTER RETAINING SCREW - SOCKET SIDE ERS END RETAINING SCREW - SOCKET SIDE   CJP CENTER JACK POST - PIN SIDE EJP END JACK POST - PIN SIDE   HT HIGH TEMP
DRS SOCKET CONNECTOR			
EXAMPLES:			
			
DRP-52-DD-ESR			
			
DRS-43-DD-LT			
			
DRS-32-DD-M			

Dual Row Micro Strip

FLEX TAIL (TYPE FF)

Flex mount Micro Strip connectors are a low profile ruggedized connector on .050" (1.27 mm) centerlines. The SMT tails are formed together in an hourglass shape, allowing a double sided flex circuit to slide between the 2 rows of leads. The spring tension holds the flex in place during the soldering process. These durable light weight connectors are suitable for the most demanding applications. Available with retaining pin screws as well as mounting holes suitable for PCB and flex mounting. They feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.



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

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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

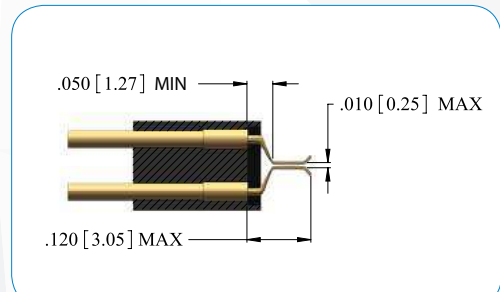
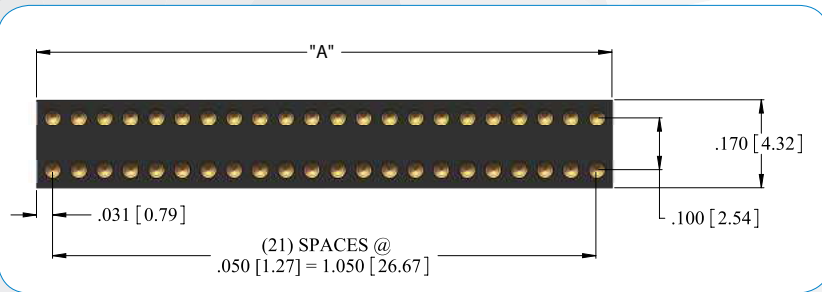
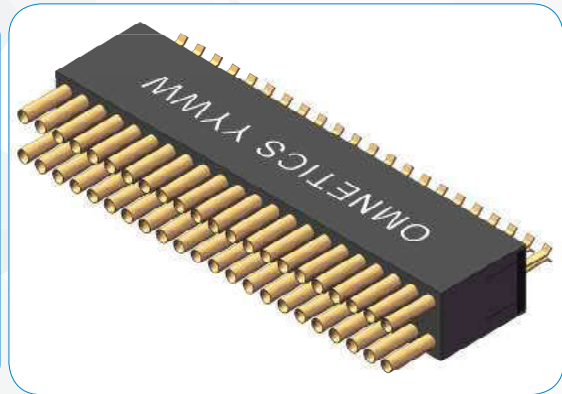
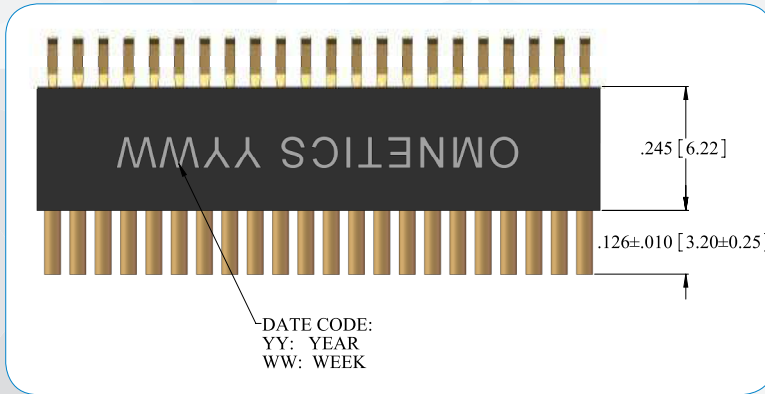
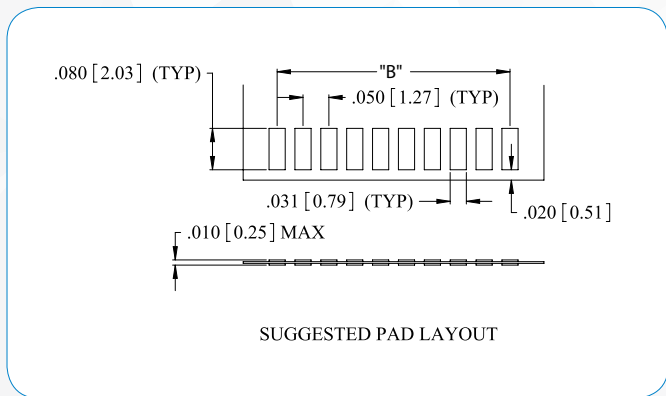
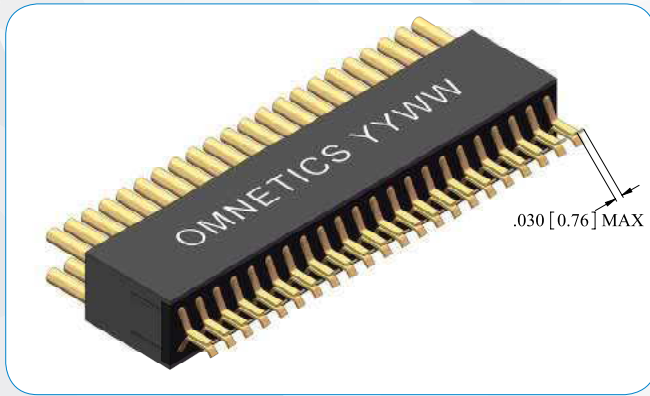
MATERIAL SPECIFICATIONS

- 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

Dual Row Micro Strip

DRS-FF LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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 in one row minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" for each latch	_____
Add .050" for each guide post hole	_____
Add .100" for each screw receptacle	_____
Total Length (Dimension B)	_____

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

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

Dual Row Micro Strip

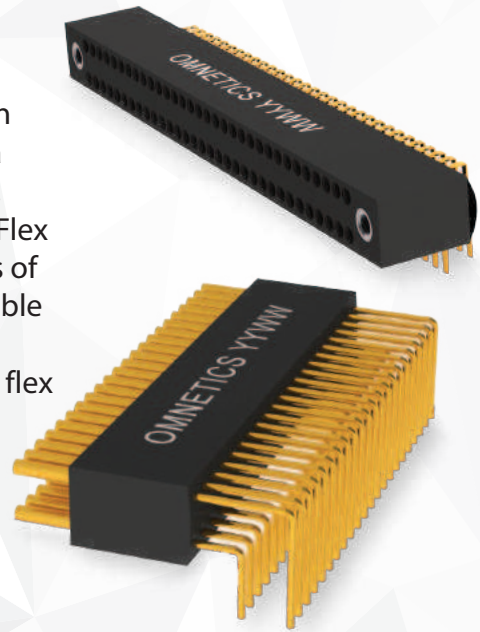
FLEX TAIL (TYPE FF) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
DRS SOCKET CONNECTOR	02 - 64	FF	<p> G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES </p>  <p> LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT) </p>  <p> LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT) </p>  <p> CRS CENTER RETAINING SCREW - SOCKET SIDE </p>  <p> ERS END RETAINING SCREW - SOCKET SIDE </p>  <p> HT HIGH TEMP </p>
EXAMPLES:			<p> RoHS RoHS COMPLIANT </p> 
DRS-43-FF-LE	DRS-43-FF-LT		

Dual Row Micro Strip

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

The Dual Row Micro Strip connectors have contacts arranged on .050" (1.27 mm) centerlines. The thru-hole tails are arranged in a .050" x .100" grid, allowing for space for traces and annular rings. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. These durable light weight connectors are suitable for the most demanding applications. They are available with retaining screws as well as mounting holes suitable for PCB and flex mounting.



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These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.

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

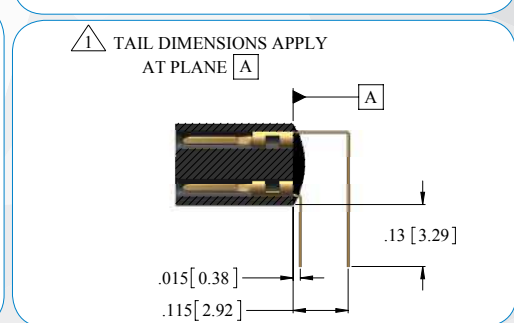
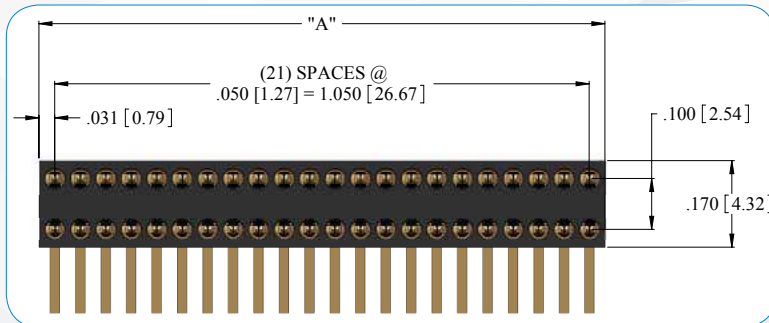
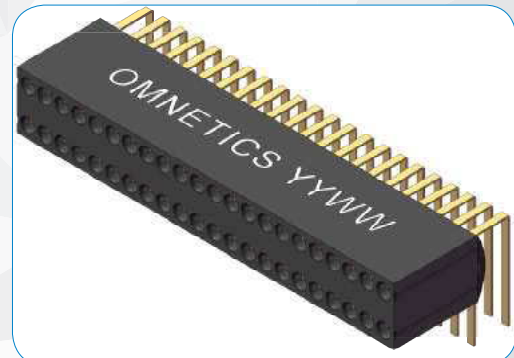
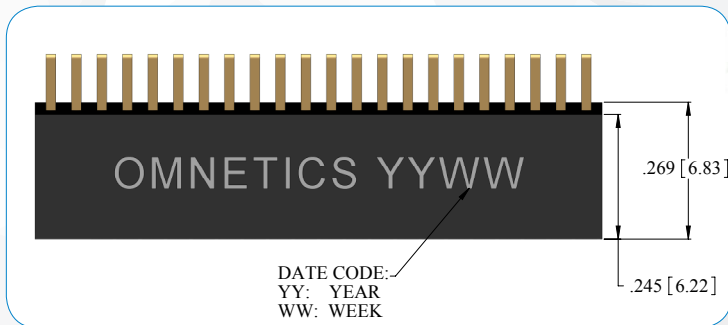
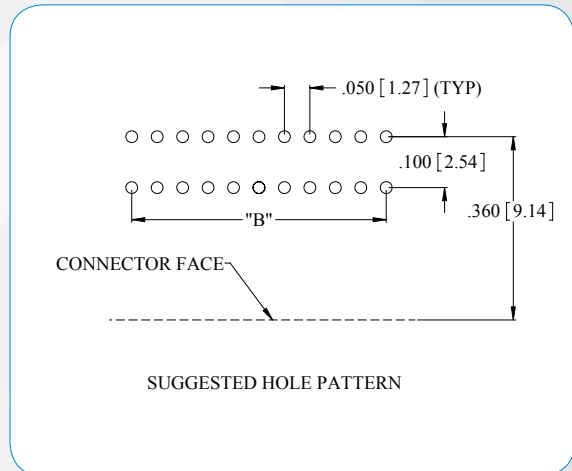
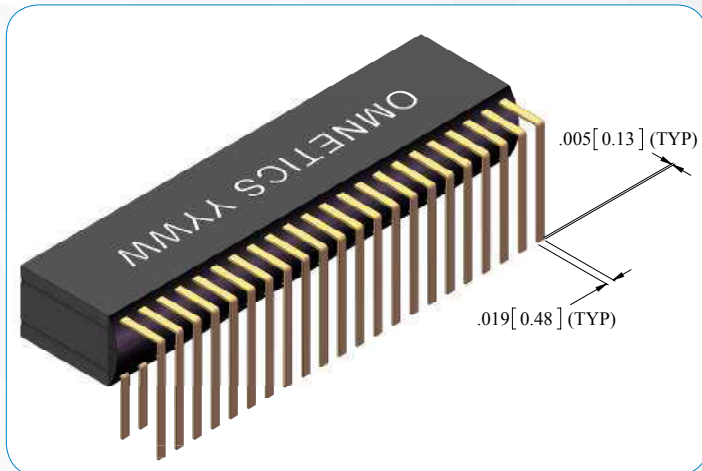
MATERIAL SPECIFICATIONS

- 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

Dual Row Micro Strip

DRP-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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":

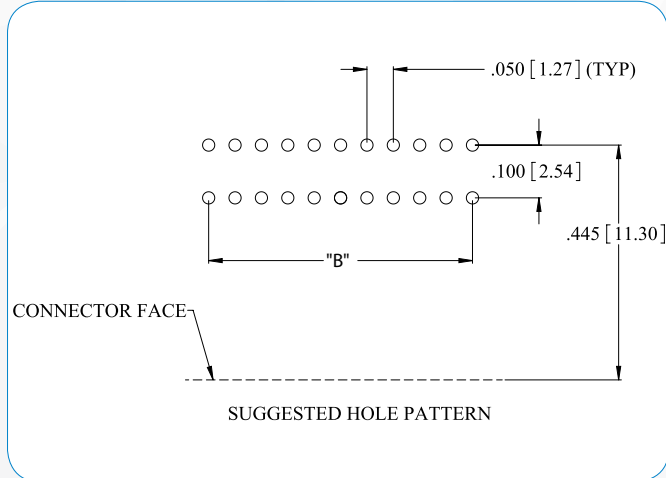
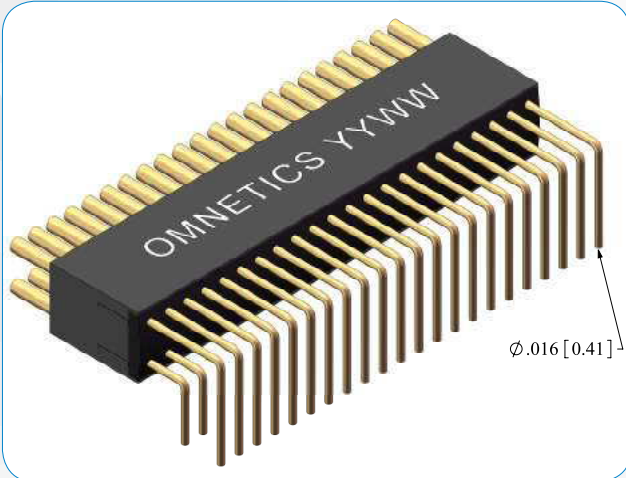
Multiply the number of contact cavities in one row minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" for each latch	_____
Add .050" for each guide post hole	_____
Add .100" for each screw receptacle	_____
Total Length (Dimension B)	_____

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

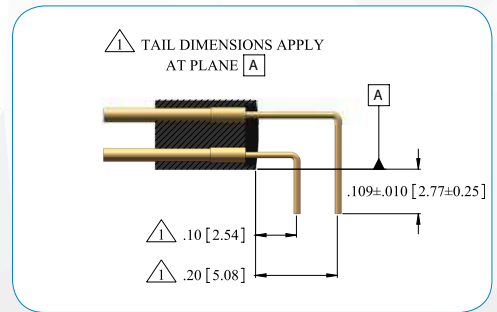
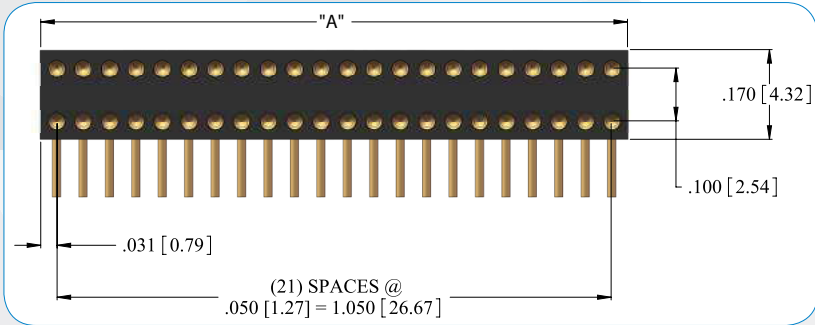
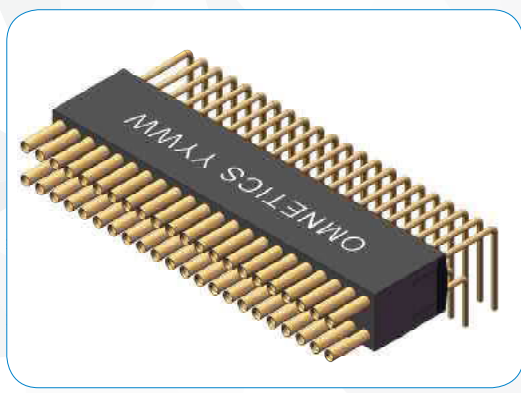
Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Dual Row Micro Strip

DRS-H2 LAYOUT



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DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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 in one row minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" for each latch	_____
Add .050" for each guide post hole	_____
Add .100" for each screw receptacle	_____
Total Length (Dimension B)	_____

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

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

Dual Row Micro Strip

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

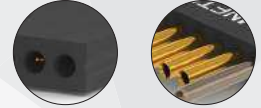
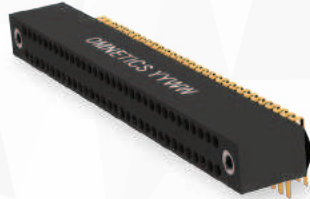
SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
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DRP
PIN CONNECTOR

02 - 64

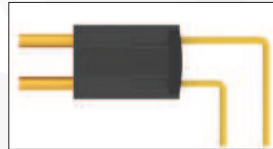
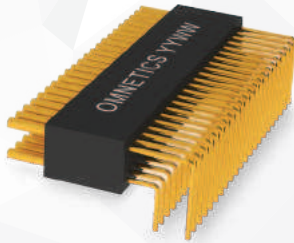
H2

G GUIDE POST/HOLE
GS MULTIPLE GUIDE POSTS/HOLES



LE LATCH (END MOUNT)
LES MULTIPLE LATCHES (END MOUNT)

DRS
SOCKET CONNECTOR



LT LATCH (TOP MOUNT)
LTS MULTIPLE LATCHES (TOP MOUNT)

M
MOUNTING HOLE



CSR CENTER SCREW RECEPTACLE - PIN SIDE

ESR END SCREW RECEPTACLE - PIN SIDE



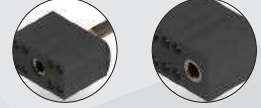
CRS CENTER RETAINING SCREW - SOCKET SIDE

ERS END RETAINING SCREW - SOCKET SIDE



CJP CENTER JACK POST - PIN SIDE

EJP END JACK POST - PIN SIDE

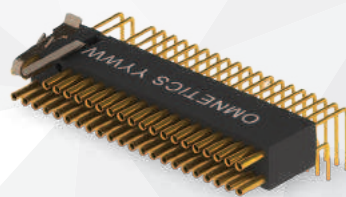


HT
HIGH TEMP

EXAMPLES:



DRP-52-H2-ESR



DRS-43-H2-LT



DRS-43-H2-LE



DRS-32-H2-M

RoHS
RoHS COMPLIANT

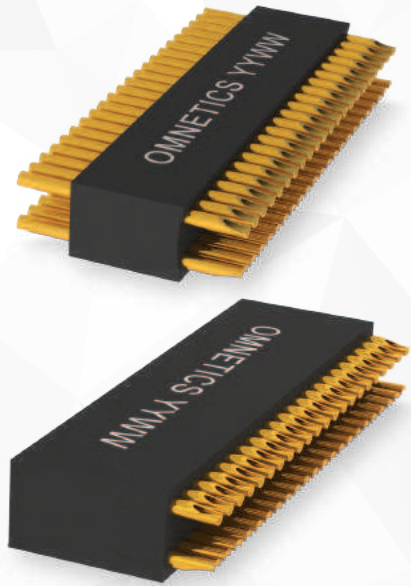


Dual Row Micro Strip

SOLDER CUP (TYPE SS)

The solder cup tails are commonly used for hand soldering applications and for 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 which meets the performance specifications of MIL-DTL-83513. Available with fixing/retention jack screws as well as mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations and accept 26 AWG or smaller stranded wire.



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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

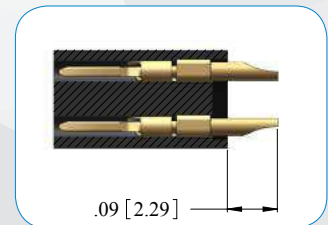
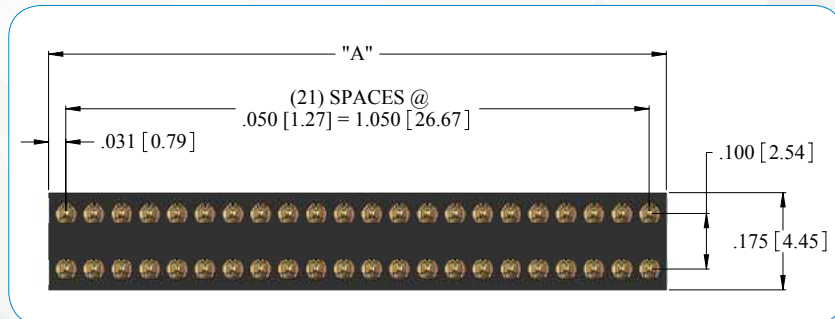
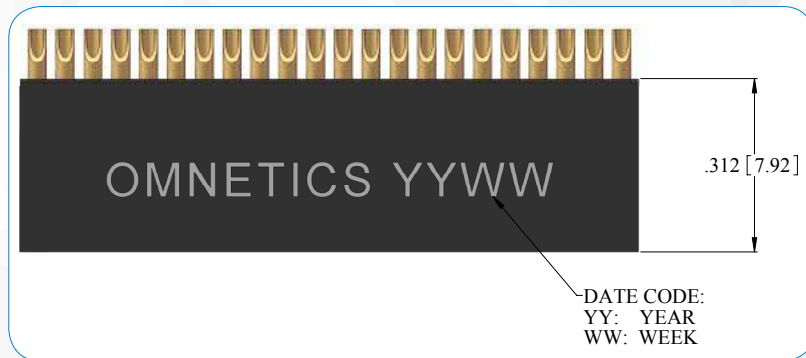
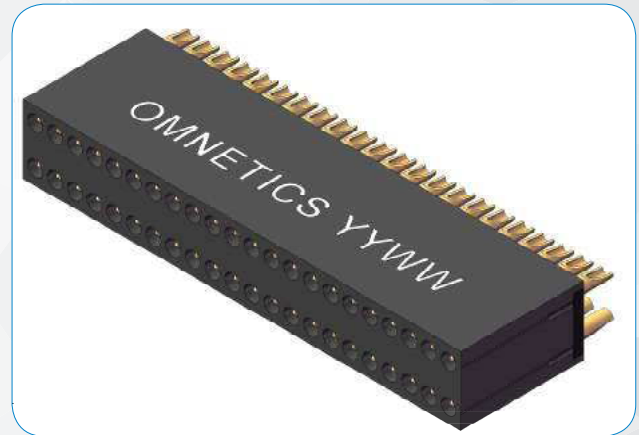
MATERIAL SPECIFICATIONS

- 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

Dual Row Micro Strip

DRP-SS LAYOUT



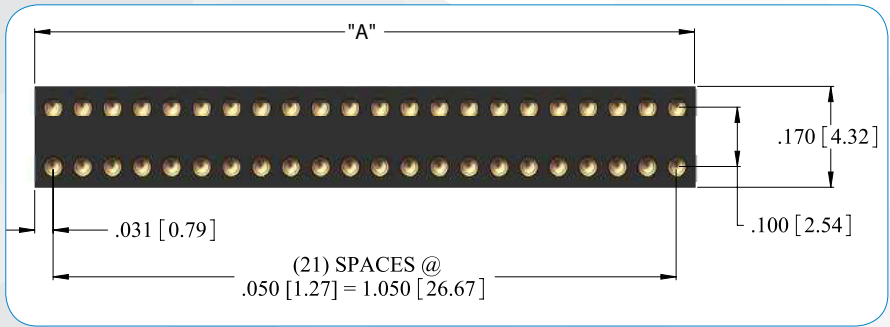
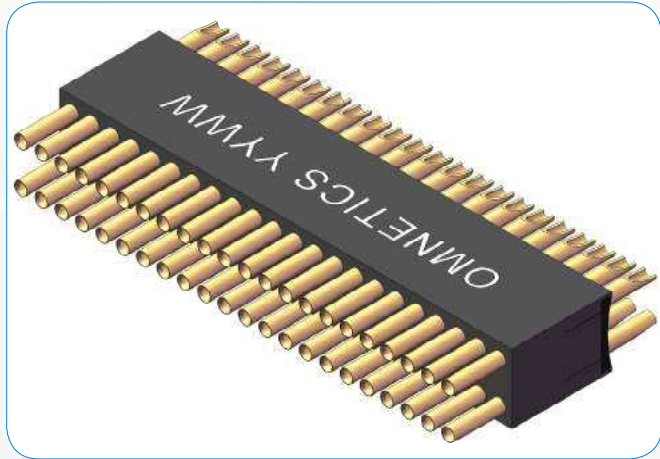
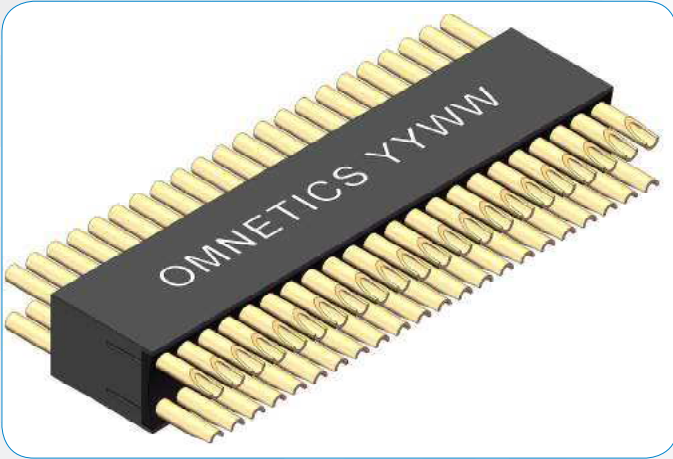
DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post in the same row	_____
Total contact cavities in a single row	_____
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A):	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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.

Dual Row Micro Strip

DRS-SS LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	_____
Total Length (Dimension A)	<u>.062"</u>

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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.

Dual Row Micro Strip

SOLDERCUP (TYPE SS) ORDERING GUIDE

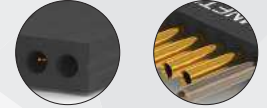
SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
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DRP
PIN CONNECTOR

02 - 64

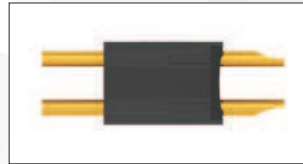
SS

G GUIDE POST/HOLE
GS MULTIPLE GUIDE POSTS/HOLES



LE LATCH (END MOUNT)
LES MULTIPLE LATCHES (END MOUNT)

DRS
SOCKET CONNECTOR



LT LATCH (TOP MOUNT)
LTS MULTIPLE LATCHES (TOP MOUNT)

EXAMPLES:



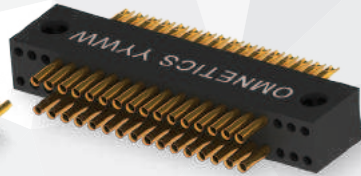
DRP-43-SS-LE



DRS-43-SS-LT



DRS-43-SS-LE



DRS-32-SS-M

M
MOUNTING HOLE



CSR CENTER SCREW RECEPTACLE - PIN SIDE
ESR END SCREW RECEPTACLE - PIN SIDE



CRS CENTER RETAINING SCREW - SOCKET SIDE
ERS END RETAINING SCREW - SOCKET SIDE



CJP CENTER JACK POST - PIN SIDE
EJP END JACK POST - PIN SIDE



HT
HIGH TEMP



RoHS
RoHS COMPLIANT

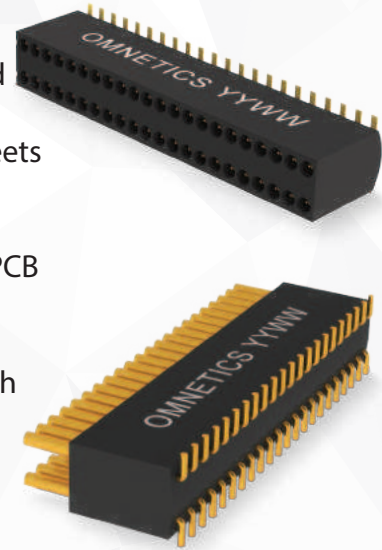


Dual Row Micro Strip

VERTICAL SMT (TYPE VV)

Vertical SMT Micro Strip connectors require a minimal amount of board space on flex circuits and rigid circuit boards. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. These rugged light weight connectors are suitable for the most demanding applications. Available with retaining screws as well as mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.



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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

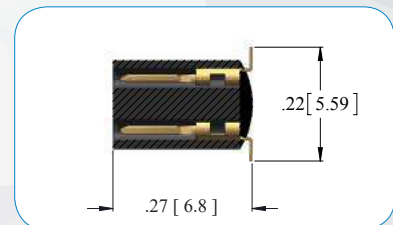
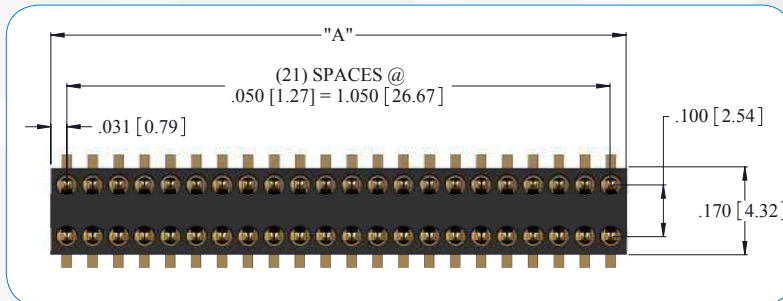
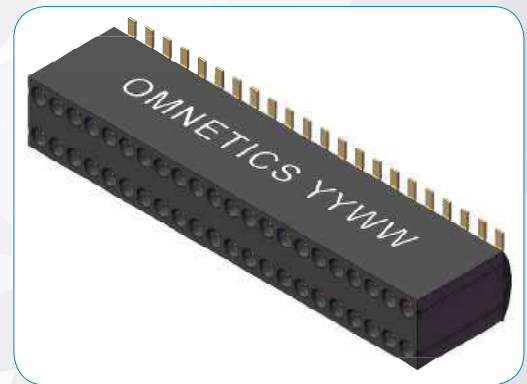
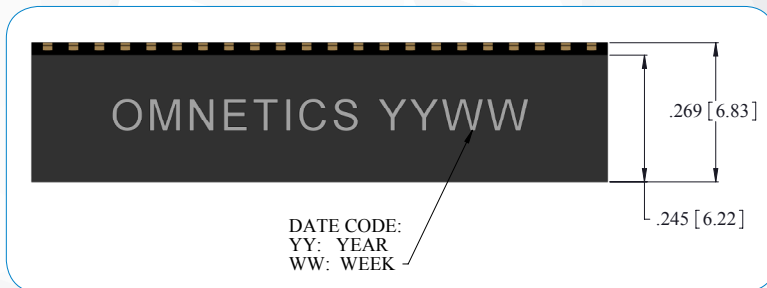
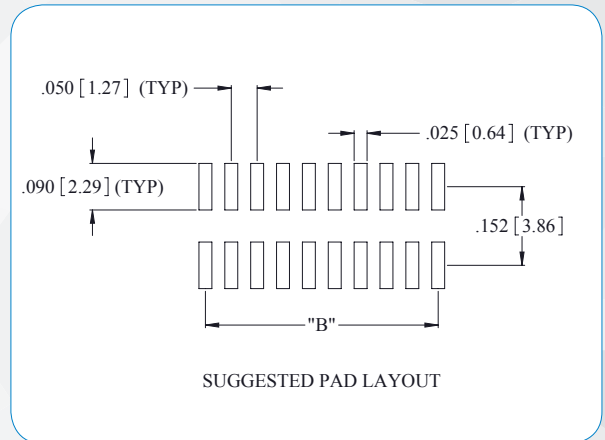
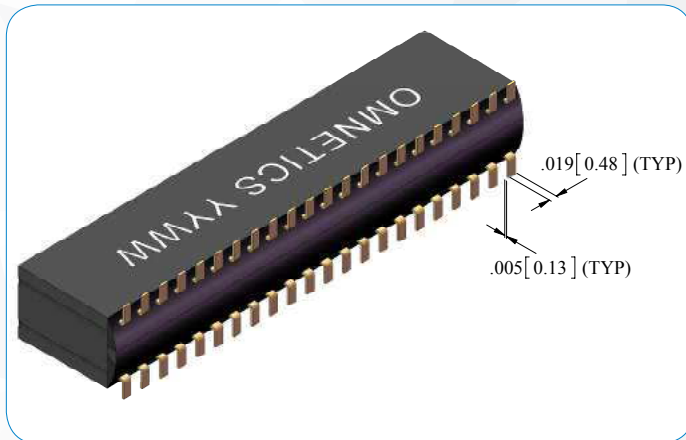
MATERIAL SPECIFICATIONS

- 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

Dual Row Micro Strip

DRP-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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":

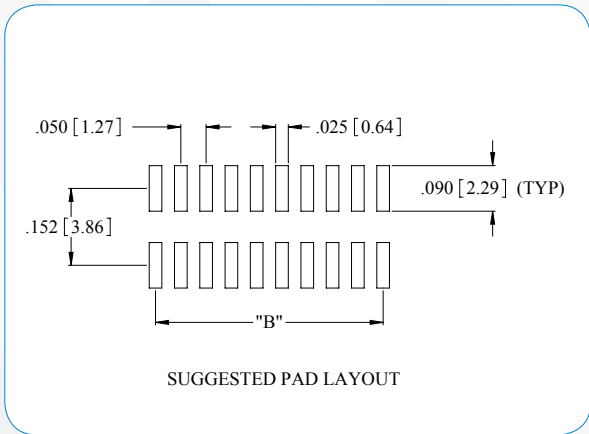
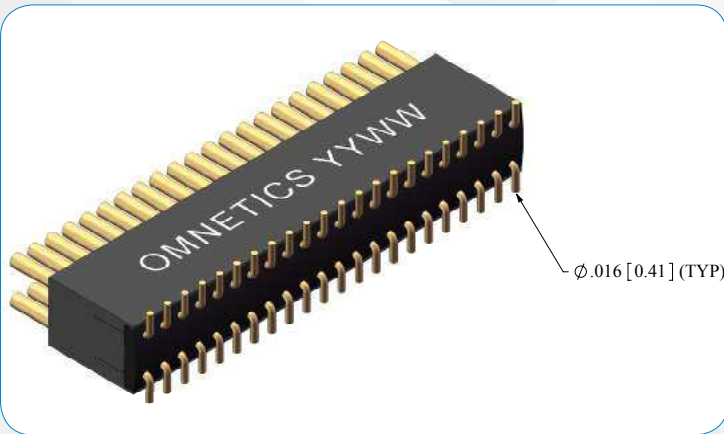
Multiply the number of contact cavities in one row minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" for each latch	_____
Add .050" for each guide post hole	_____
Add .100" for each screw receptacle	_____
Total Length (Dimension B)	_____

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

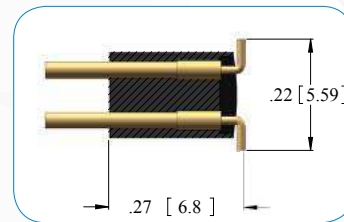
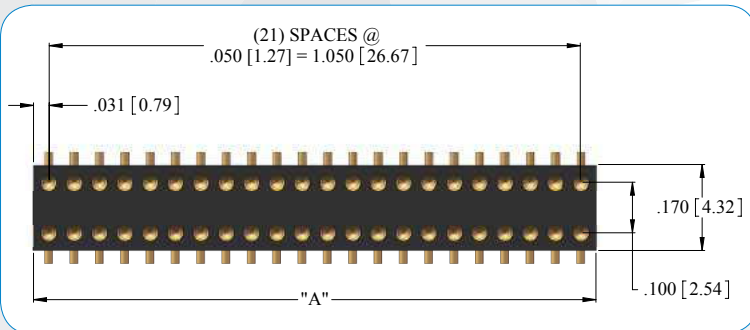
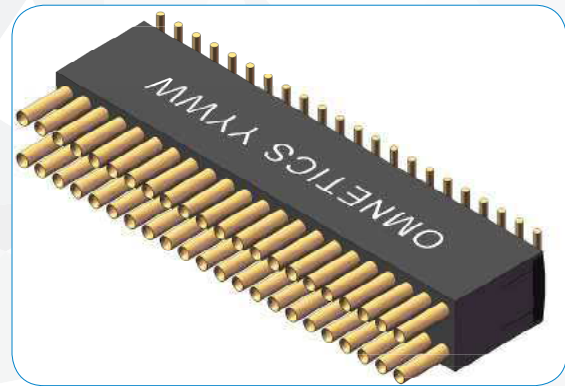
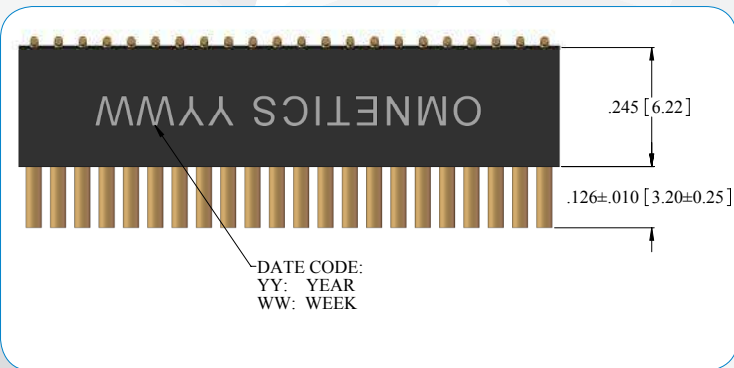
Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Dual Row Micro Strip

DRS-VV LAYOUT



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DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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 in one row minus 1 by .050"	_____
If hardware features are within the contact area:	
Add .050" for each latch	_____
Add .050" for each guide post hole	_____
Add .100" for each screw receptacle	_____
Total Length (Dimension B)	_____

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

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

Dual Row Micro Strip

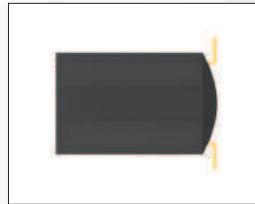
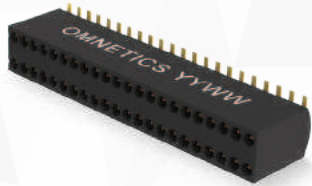
VERTICAL SMT (TYPE VV) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
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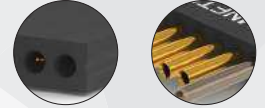
DRP
PIN CONNECTOR

02 - 64

VV



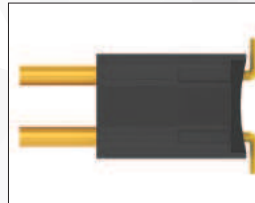
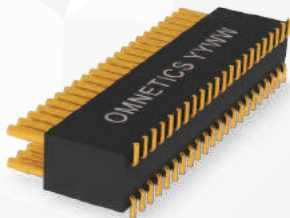
G GUIDE POST/HOLE
GS MULTIPLE GUIDE POSTS/HOLES



LE LATCH (END MOUNT)
LES MULTIPLE LATCHES (END MOUNT)



DRS
SOCKET CONNECTOR



LT LATCH (TOP MOUNT)
LTS MULTIPLE LATCHES (TOP MOUNT)



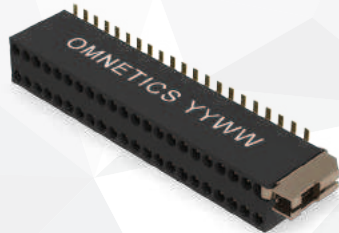
M
MOUNTING HOLE



CSR CENTER SCREW RECEPTACLE - PIN SIDE
ESR END SCREW RECEPTACLE - PIN SIDE



EXAMPLES:



DRP-43-VV-LE



DRS-43-VV-LT

CRS CENTER RETAINING SCREW - SOCKET SIDE
ERS END RETAINING SCREW - SOCKET SIDE



CJP CENTER JACK POST - PIN SIDE
EJP END JACK POST - PIN SIDE



DRS-43-VV-LE

HT
HIGH TEMP

RoHS
RoHS COMPLIANT



Dual Row Micro Strip

PRE-WIRED/CABLE (TYPE WD/WC)

Pre-wired Dual 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 the 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 for quick turn around.



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These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.

ELECTRO-MECHANICAL SPECS

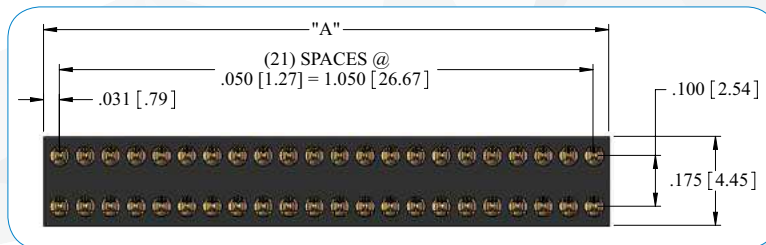
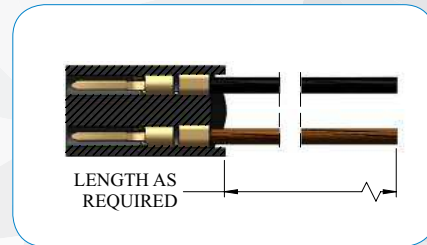
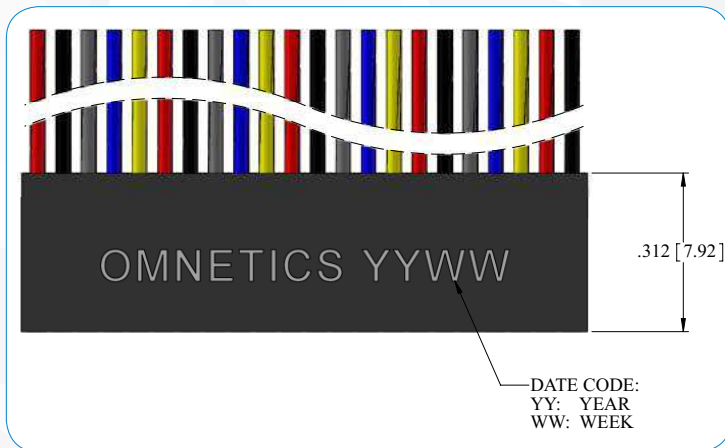
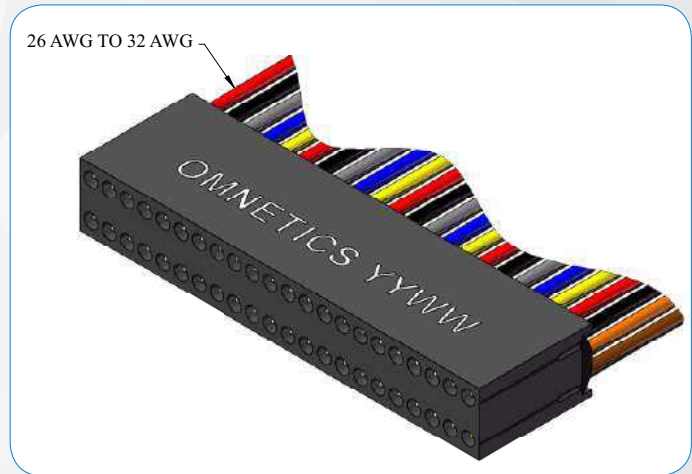
- Durability: 2000 Cycles
- Temperature: -55°C to +125 °C (200 °C w/HTE)
- Current rating: 3 AMPs max per contact
- Voltage Rating (DWV): 600 VAC RMS Sea Level
- Insulation Resistance: 5000 Megohms min @ 500 VDC
- Shock: 50 g's discontinuity < 1 microsecond
- Vibration: 20 g's discontinuity < 1 microsecond
- 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

Dual Row Micro Strip

DRP-WD/WC LAYOUT



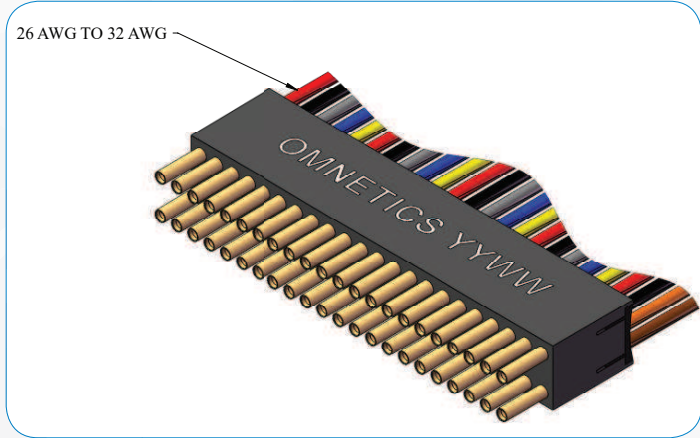
DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post in the same row	_____
Total contact cavities in a single row	_____
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	.062"
Total Length (Dimension A):	_____

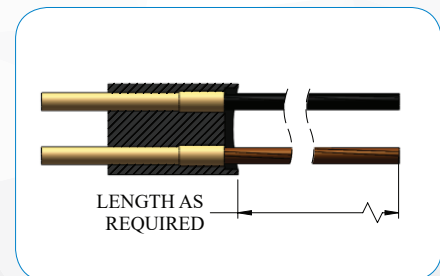
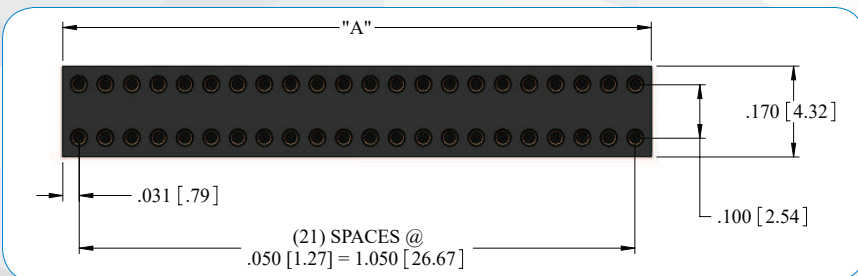
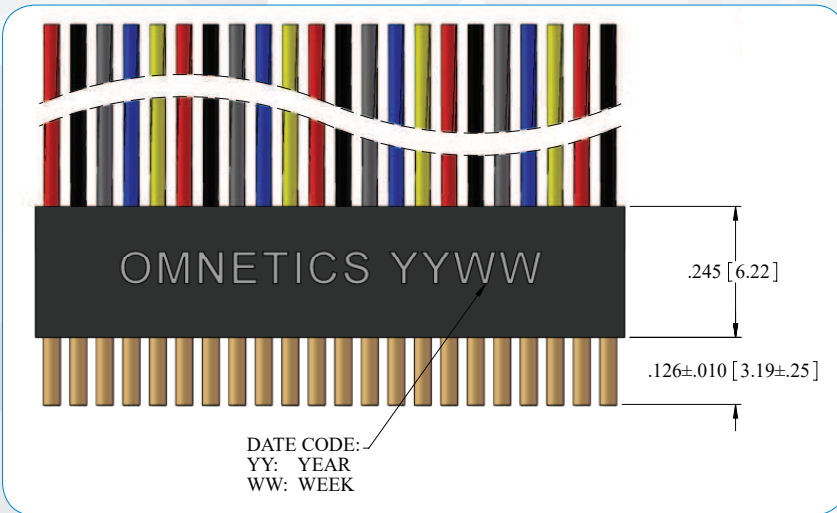
Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Dual Row Micro Strip

DRS-WD/WC LAYOUT



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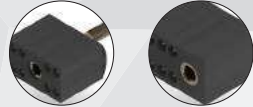
DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	_____
Add 1 contact cavity for each latch in the same row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	_____
Add .150" for each mounting hole	_____
Add .100" for each screw receptacle	_____
Add fixed end length constant	_____ .062"
Total Length (Dimension A)	_____

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. 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.

Dual Row Micro Strip

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

SERIES	# OF CONTACTS	TERMINATION TYPE	WIRE LENGTH	COLOR CODED	COMMON OPTIONS
DRP PIN CONNECTOR 	02 - 64	WD DISCRETE WIRES	18.00 =18.00" STANDARD	C 10 REPEATING COLORS PER MIL-STD 681  Y ALL OTHER WIRE COLORS	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES 
		TW TWISTED WIRES	XX.XX CUSTOM LENGTH i.e. 23.40 =23.40"		LE LATCH (END MOUNT) LES MULTIPLE LATCHES (END MOUNT) 
DRS SOCKET CONNECTOR 		WC CABLE	26 AWG Standard/MAX 		LT LATCH (TOP MOUNT) LTS MULTIPLE LATCHES (TOP MOUNT) 
		WX MULTIPLE WIRE TYPES			
EXAMPLES: 					CSR CENTER SCREW RECEPTACLE - PIN SIDE ESR END SCREW RECEPTACLE - PIN SIDE 
					CRS CENTER RETAINING SCREW - SOCKET SIDE ERS END RETAINING SCREW - SOCKET SIDE 
					CJP CENTER JACK POST - PIN SIDE EJP END JACK POST - PIN SIDE 
					HT HIGH TEMP RoHS RoHS COMPLIANT CS CUSTOMER SUPPLIED MATERIAL