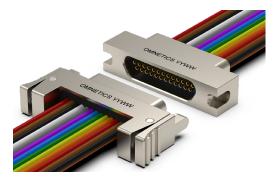
Omnetics' Latching Micro-D connectors offer a rugged quick latch system. The Latching Micro-D connectors are available in sizes 9-51 and use Omnetics' Flex Pin contact system, which meets all the standard performance requirements of MIL-DTL-83513, including shock and vibration. These connectors provide a secure connection without the need for tools and jacking hardware and are available in wired, board mount, panel mount configurations as well as with back shell options.



ТҮРЕ	PERFORMANCE
Durability	> 2000 Mating Cycles min
Temperature	-55°C to +125°C (200 °C w/HTE)
Current rating	3 Amps per contact per MIL-DTL-83513
Voltage Rating (DWV)	600 VAC RMS Sea Level
Insulation Resistance	5,000 Megohms @ 500 VDC
Shock	50 g's with no discontinuties > 1 microsecond
Vibration	20 g's with no discontinuties > 1 microsecond
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
Mating/Unmating Force	3 oz. (.85g) typical per contact

Electro-Mechanical Specifications

Material Specifications

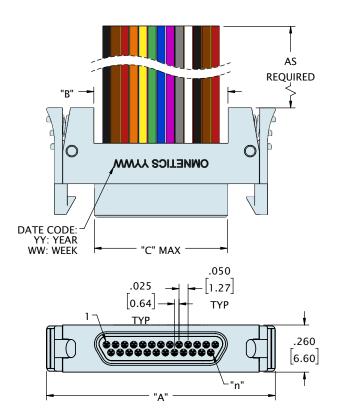
ТҮРЕ	PERFORMANCE	
Contact	Copper Alloy Per MIL-DTL-83513	
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate	
Insulator	Thermoplastic per MIL-DTL-83513	
Interfacial Seal	Silicone Elastomer per A-A-59588	
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700	

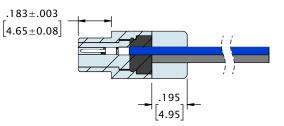
MATERIAL	FINISH	
Aluminum 6061	Electroless Nickel per SAE-AMS-2404	
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700	

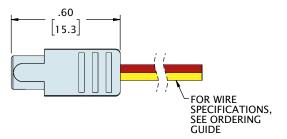
LATCHING MICRO-D DISCRETE LEADWIRE (TYPE WD)







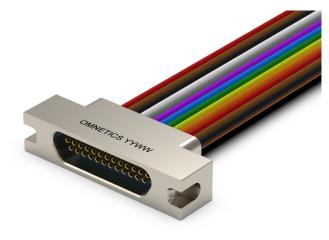


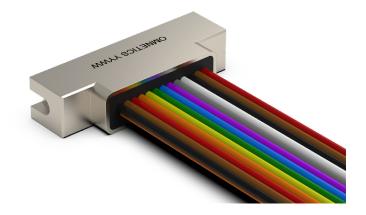


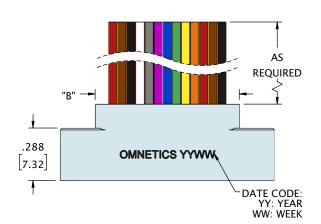
CONTACTS	ROWS	"A"	"B"	"C"
9	2	.86 [21.8]	.340 [8.64]	.334 [8.48]
15	2	1.01 [25.7]	.490 [12.45]	.484 [12.29]
21	2	1.16 [29.5]	.640 [16.26]	.634 [16.10]
25	2	1.26 [32.0]	.740 [18.80]	.734 [18.64]
31	2	1.41 [35.8]	.890 [22.61]	.884 [22.45]
37	2	1.56 [39.6]	1.040 [26.42]	1.034 [26.26]
51	2	1.91 [48.5]	1.390 [35.31]	1.384 [35.15]
		N MILLIMETEDS AN	D ADE EOD DEEEDE	

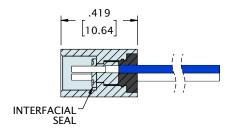
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY

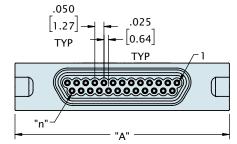
LATCHING MICRO-D DISCRETE LEADWIRE (TYPE WD)

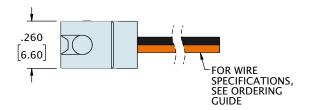












CONTACTS	ROWS	"A"	"B"
9	2	.775 [19.69]	.390 [9.91]
15	2	.925 [23.50]	.540 [13.72]
21	2	1.075 [27.31]	.690 [17.53]
25	2	1.175 [29.85]	.790 [20.07]
31	2	1.325 [33.66]	.940 [23.88]
37	2	1.475 [37.47]	1.090 [27.69]
51	2	1.825 [46.36]	1.440 [36.58]

DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONL



1	Series	LMDP Latching Me		Pin		LMDS Latchi	-		cket
2	Number of Contacts	009 015 * Use 512 for Two Rows	021	025	031	037	051*		
З	Termination Type	WD Discrete Leadw	/ire						
4	Wire AWG	4 24 AWG	6 26 A	WG (STD)		8 28 AW	G	o 30 A	WG
5	Wire Type	Q Nema HP3 (STD)	R	M22759/1	1	S M2275	59/33	X Ot	her
6	Wire Length (inches)	18.0 (STD)			>	XXX Custom	length		
7	Color Scheme	1 10 Repeating	2 Blue	3 Wł	nite	4 Non Re	peating	5 Ye	llow
8	Shell Material & Finish	N Aluminum Shell, E B Aluminium Shell,			ed		m Shell, Ca Steel Shel		
9	Common Options	PA Panel Mount ReIBS Integrated BackHT High Temp Epo>	kshel			PB Panel Mo BSY Custom RH RoHS Co	Backshell		
10	Shield / Jacket	D Slip On Metal BraJ Nomex Braid		achine Braid rink Tube	d F	Flexo Braid			
11	Mod Code	M10 Keyed M50 Space Grade	Micro-D, SF			ound Spring ace Grade Mic	cro-D, SPT	2	
12	Special Instructions	YYY Describe any	thing that is	s not cover	ed in s	standard optio	ns		

Achieve a highly stable and secure connection for Micro-D terminations with Omnetics' rugged Latching Solder Cup Micro-D connectors. This shell configuration provides exceptional reliability for critical applications in the aerospace, military, oil and gas, medical, and other industries. Omnetics builds these rugged connectors to meet or exceed the demanding requirements of MIL-DTL-83513. They can endure more than 2,000 mating cycles in operating conditions that include temperate extremes ranging from -55° to 200°C. Available in a range of shell, plating, and pin options to serve an extensive range of systems.



Electro-Mechanical Specifications

ТҮРЕ	PERFORMANCE
Durability	> 2000 Mating Cycles min
Temperature	-55°C to +125°C (200 °C w/HTE)
Current rating	3 Amps per contact per MIL-DTL-83513
Voltage Rating (DWV)	600 VAC RMS Sea Level
Insulation Resistance	5,000 Megohms @ 500 VDC
Shock	50 g's with no discontinuties > 1 microsecond
Vibration	20 g's with no discontinuties > 1 microsecond
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
Mating/Unmating Force	3 oz. (.85g) typical per contact

Material Specifications

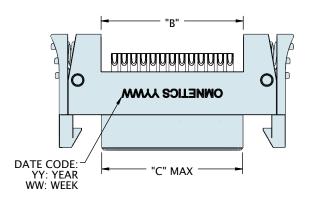
ТҮРЕ	PERFORMANCE	
Contact	Copper Alloy Per MIL-DTL-83513	
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate	
Insulator	Thermoplastic per MIL-DTL-83513	
Interfacial Seal	Silicone Elastomer per A-A-59588	
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700	

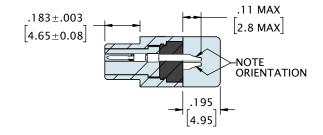
MATERIAL	FINISH	
Aluminum 6061	Electroless Nickel per SAE-AMS-2404	
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700	

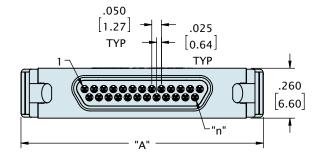
LATCHING MICRO-D SOLDER CUP (TYPE SS)

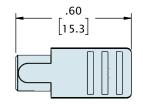












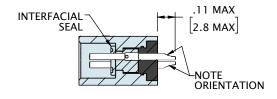
ROWS	"A"	"В"	"C"
2	.86 [21.8]	.340 8.636	.334 [8.48]
2	1.01 [25.7]	.490 12.446	.484 [12.29]
2	1.16 [29.5]	.640 16.256	.634 [16.10]
2	1.26 [32.0]	.740 18.796	.734 [18.64]
2	1.41 [35.8]	.890 22.606	.884 [22.45]
2	1.56 [39.6]	1.040 26.416	1.034 [26.26]
2	1.91 [48.5]	1.390 35.306	1.384 [35.15]
	2 2 2	2 .86 [21.8] 2 1.01 [25.7] 2 1.16 [29.5] 2 1.26 [32.0] 2 1.41 [35.8] 2 1.56 [39.6]	2 .86 [21.8] .340 8.636 2 1.01 [25.7] .490 12.446 2 1.16 [29.5] .640 16.256 2 1.26 [32.0] .740 18.796 2 1.41 [35.8] .890 22.606 2 1.56 [39.6] 1.040 26.416

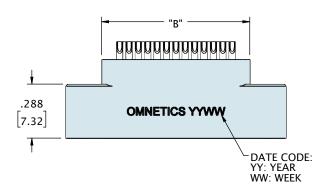
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY

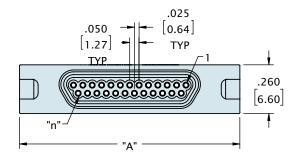
LATCHING MICRO-D SOLDER CUP (TYPE SS)

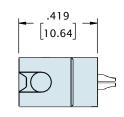












CONTACTS	ROWS	"A"	"B"				
9	2	.775 [19.69]	.390 [9.91]				
15	2	.925 [23.50]	.540 [13.72]				
21	2	1.075 [27.31]	.690 [17.53]				
25	2	1.175 [29.85]	.790 [20.07]				
31	2	1.325 [33.66]	.940 [23.88]				
37	2	1.475 [37.47]	1.090 [27.69]				
51	2	1.825 [46.36]	1.440 [36.58]				
DIMENSIONS IN							

DIMENSIONS IN [] ARE IN MIL REFERENCE ONLY

LATCHING MICRO-D SOLDER CUP (TYPE SS)



1	Series	LMDP Latching Metal Micro-D Pin LMDP - Latch Side (STD)		. LMDS Latching Metal Micro-D Socket LMDS - Latch Receptacle side (STD)
2	Number of Contacts	009 015 021 02 * Use 512 for Two Rows 051	5 0	31 037 051 [*]
3	Termination Type	SS Soldercup		
4	Shell Material & Finish	N Aluminum Shell, Electroless NickB Aluminium Shell, Black Anodized		CD Aluminium Shell, Cadmium Plated P Stainless Steel Shell, Passivated
5	Common Options	 PA Panel Mount Rear, O-Ring (LME BSY Custom Backshell (LMDP only RH RoHS Compliant 	-	PB Panel Mount, Rear (LMDS only)HT High Temp Epoxy
6	Mod Codes	M10 Keyed M50 Space Grade Micro-D, SPT1		Ground Spring Space Grade Micro-D, SPT2
7	Special Instructions	YYY Describe anything that is not	covered	in standard options

Omnetics Latching Micro-D Horizontal Surface Mount Connectors feature our easy-to-use quick-latch mechanism. No tools are required to achieve a supremely secure connection that can endure the rigors of military, aeronautics, and space applications. These high-reliability connectors meet or exceed the shock and vibration requirements of MIL-DTL-83513. They are available in pin counts from 9 to 51 and can be configured to support the unique needs of every design, with discrete wires, overmolded cable, panel mount housings, or PCB-mounted versions.



Electro-Mechanical Specifications

ТҮРЕ	PERFORMANCE
Durability	> 2000 Mating Cycles min
Temperature	-55°C to +125°C (200 °C w/HTE)
Current rating	3 Amps per contact per MIL-DTL-83513
Voltage Rating (DWV)	600 VAC RMS Sea Level
Insulation Resistance	5,000 Megohms @ 500 VDC
Shock	50 g's with no discontinuties > 1 microsecond
Vibration	20 g's with no discontinuties > 1 microsecond
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
Mating/Unmating Force	3 oz. (.85g) typical per contact

Material Specifications

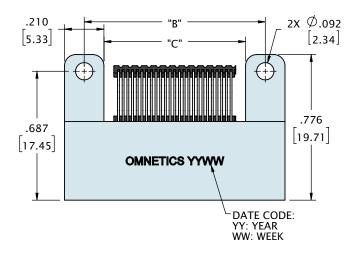
ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-DTL-83513
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

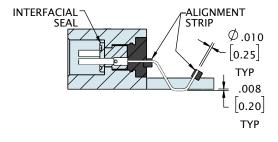
MATERIAL	FINISH
Aluminum 6061	Electroless Nickel per SAE-AMS-2404
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700

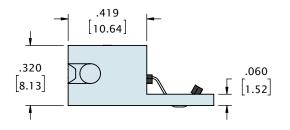


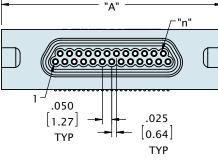


See page 158 for recommended board layout

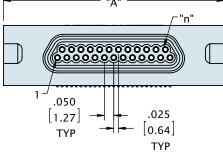






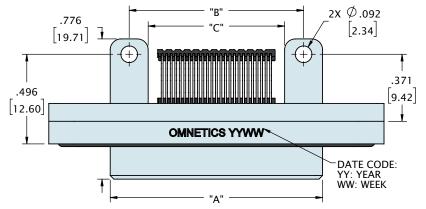


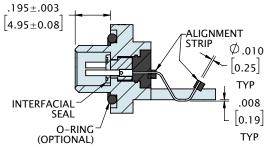
CONTACTS	ROWS	"A"	"В"	"C"
9	2	.775 [19.69]	.565 [14.35]	.355 [9.02]
15	2	.925 [23.50]	.715 [18.16]	.505 [12.83]
21	2	1.075 [27.31]	.865 [21.97]	.655 [16.64]
25	2	1.175 [29.85]	.965 [24.51]	.755 [19.18]
31	2	1.325 [33.66]	1.115 [28.32]	.905 [22.99]
37	2	1.475 [37.47]	1.265 [32.13]	1.055 [26.80]
51	2	1.825 [46.36]	1.615 [41.02]	1.405 [35.69]
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY				





See page 158 for recommended board layout



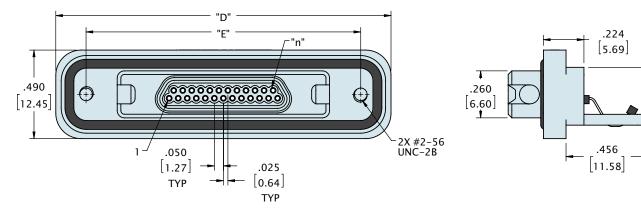


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.320

[8.13]

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CONTACTS	ROWS	"A"	"B"	"C"	"D"	"E"
9	2	.775 [19.69]	.565 [14.35]	.355 [9.02]	1.455 [36.96]	1.120 [28.45]
15	2	.925 [23.50]	.715 [18.16]	.505 [12.83]	1.605 [40.77]	1.270 [32.26]
21	2	1.075 [27.31]	.865 [21.97]	.655 [16.64]	1.755 [44.58]	1.420 [36.07]
25	2	1.175 [29.85]	.965 [24.51]	.755 [19.18]	1.855 [47.12]	1.520 [38.61]
31	2	1.325 [33.66]	1.115 [28.32]	.905 [22.99]	2.005 [50.93]	1.670 [42.42]
37	2	1.475 [37.47]	1.265 [32.13]	1.055 [26.80]	2.155 [54.74]	1.820 [46.23]
51	2	1.825 [46.36]	1.615 [41.02]	1.405 [35.69]	2.505 [63.63]	2.170 [55.12]
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY						

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1	Series	LMDS Latching Metal Micro-D Socket
2	Number of Contacts	009 015 021 025 031 037 051 [*] * Use 512 for Two Rows 051
3	Termination Type	HO Horizontal Surface Mount
4	Shell Material & Finish	 N Aluminum Shell, Electroless Nickel Plated B Aluminium Shell, Black Anodized CD Aluminium Shell, Cadmium Plated P Stainless Steel Shell, Passivated
6	Common Options	PAPanel Mount Rear, O-RingPBPanel Mount, RearHTHigh Temp EpoxyRHRoHS Compliant
7	Mod Codes	M10 KeyedM30 Ground SpringM50 Space Grade Micro-D, SPT1M53 Space Grade Micro-D, SPT2
8	Special Instructions	YYY Describe anything that is not covered in standard options

Omnetics Latching Micro-D Vertical Surface Mount Connectors feature our easy-to-use quick-latch mechanism. No threaded hardware is involved and no tools are required to achieve a supremely secure connection that can endure the rigors of military, aeronautics, and space applications. These high-reliability connectors meet or exceed the shock and vibration requirements of MIL-DTL-83513. They feature Omnetics' one-piece flex pin design to provide additional protection against shock and vibration. This is an ideal connector for applications that are in constant or unpredictable motion. We offer a wide range of configurations, including multiple plating options, and a panel mount version with discrete wire, cable, or solder cup.



Electro-Mechanical Specifications

ТҮРЕ	PERFORMANCE
Durability	> 2000 Mating Cycles min
Temperature	-55°C to +125°C (200 °C w/HTE)
Current rating	3 Amps per contact per MIL-DTL-83513
Voltage Rating (DWV)	600 VAC RMS Sea Level
Insulation Resistance	5,000 Megohms @ 500 VDC
Shock	50 g's with no discontinuties > 1 microsecond
Vibration	20 g's with no discontinuties > 1 microsecond
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
Mating/Unmating Force	3 oz. (.85g) typical per contact

Material Specifications

ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-DTL-83513
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

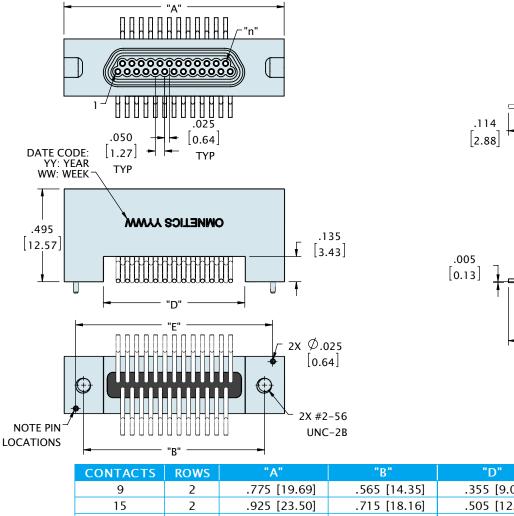
MATERIAL	FINISH
Aluminum 6061	Electroless Nickel per SAE-AMS-2404
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700

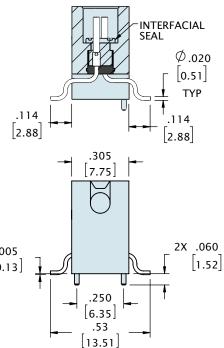
LATCHING MICRO-D VERTICAL SURFACE MOUNT (TYPE VV)





See page 158 for recommended board layout





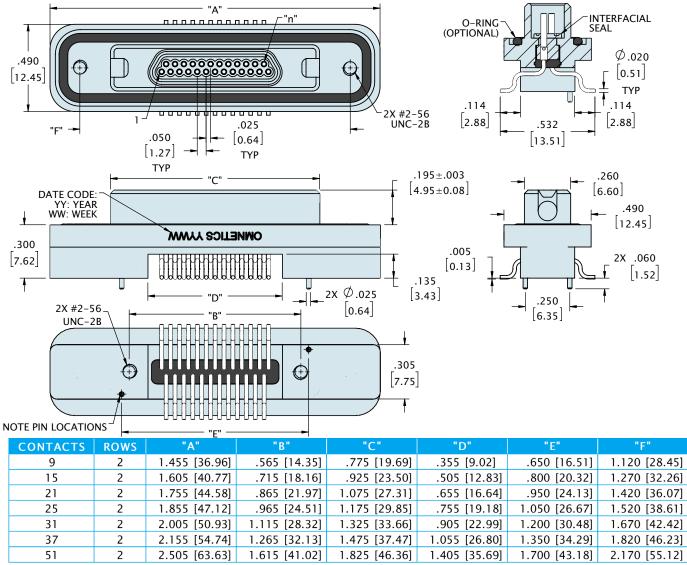
CONTACTS	ROWS	"A"	"B"	"D"	"E"
9	2	.775 [19.69]	.565 [14.35]	.355 [9.02]	.650 [16.51]
15	2	.925 [23.50]	.715 [18.16]	.505 [12.83]	.800 [20.32]
21	2	1.075 [27.31]	.865 [21.97]	.655 [16.64]	.950 [24.13]
25	2	1.175 [29.85]	.965 [24.51]	.755 [19.18]	1.050 [26.67]
31	2	1.325 [33.66]	1.115 [28.32]	.905 [22.99]	1.200 [30.48]
37	2	1.475 [37.47]	1.265 [32.13]	1.055 [26.80]	1.350 [34.29]
51	2	1.825 [46.36]	1.615 [41.02]	1.405 [35.69]	1.700 [43.18]
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY					

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LATCHING MICRO-D VERTICAL SURFACE MOUNT (TYPE VV)



See page 158 for recommended board layout



DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY

LATCHING MICRO-D VERTICAL SURFACE MOUNT (TYPE VV)



1	Series	LMDS Latching Metal Micro-D Socket
2	Number of Contacts	009 015 021 025 031 037 051 [*] * Use 512 for Two Rows 051
3	Termination Type	VV Vertical Surface Mount
4	Shell Material & Finish	 N Aluminum Shell, Electroless Nickel Plated B Aluminium Shell, Black Anodized CD Aluminium Shell, Cadmium Plated P Stainless Steel Shell, Passivated
5	Common Options	PAPanel Mount Rear, O-RingPBPanel Mount, RearHTHigh Temp EpoxyRHRoHS Compliant
6	Mod Codes	M10 KeyedM30 Ground SpringM50 Space Grade Micro-D, SPT1M53 Space Grade Micro-D, SPT2
7	Special Instructions	YYY Describe anything that is not covered in standard options

Omnetics Latching Micro-D Card Edge Surface Mount Connectors save space on the board while providing exceptional security through our easy-to-use quick-latch mechanism. No threaded hardware is involved and no tools are required to achieve a supremely secure connection that can endure the rigors of military, aeronautics, and space applications. These high-reliability connectors meet or exceed the shock and vibration requirements of MIL-DTL-83513. They feature our one-piece flex pin design to provide additional protection against shock and vibration. We offer this connector in a wide range of configurations to suit your specifications, including shell sizes from 9 to 51 contacts, multiple plating options, and a panel mount version with discrete wire, cable, or solder cup.



Electro-Mechanical Specifications

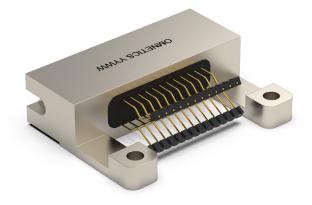
ТҮРЕ	PERFORMANCE
Durability	> 2000 Mating Cycles min
Temperature	-55°C to +125°C (200 °C w/HTE)
Current rating	3 Amps per contact per MIL-DTL-83513
Voltage Rating (DWV)	600 VAC RMS Sea Level
Insulation Resistance	5,000 Megohms @ 500 VDC
Shock	50 g's with no discontinuties > 1 microsecond
Vibration	20 g's with no discontinuties > 1 microsecond
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
Mating/Unmating Force	3 oz. (.85g) typical per contact

Material Specifications

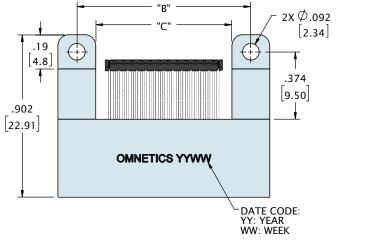
ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-DTL-83513
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

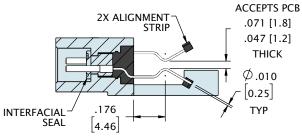
MATERIAL	FINISH
Aluminum 6061	Electroless Nickel per SAE-AMS-2404
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700

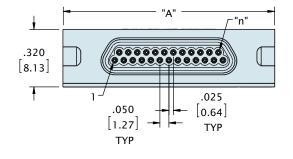


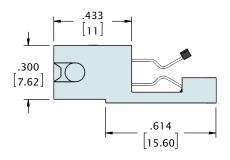


See page 159 for recommended board layout









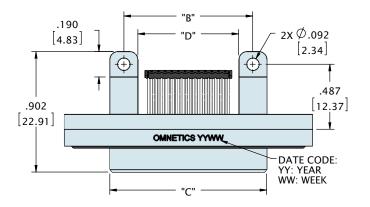
CONTACTS	ROWS	"A"	"В"	"C"
9	2	.775 [19.69]	.565 [14.35]	.355 [9.02]
15	2	.925 [23.50]	.715 [18.16]	.505 [12.83]
21	2	1.075 [27.31]	.865 [21.97]	.655 [16.64]
25	2	1.175 [29.85]	.965 [24.51]	.755 [19.18]
31	2	1.325 [33.66]	1.115 [28.32]	.905 [22.99]
37	2	1.475 [37.47]	1.265 [32.13]	1.055 [26.80]
51	2	1.825 [46.36]	1.615 [41.02]	1.405 [35.69]
DIMENSIONS IN L1 ARE IN MULTIMETERS AND ARE FOR RECEDENCE ONLY				

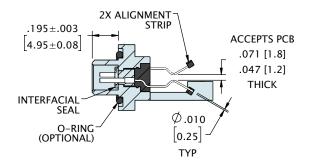
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY

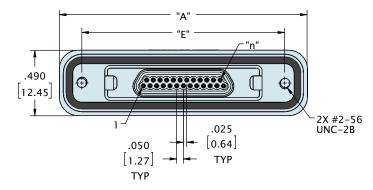


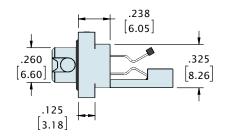


See page 159 for recommended board layout

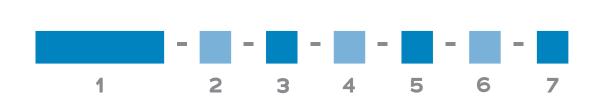








CONTACTS	ROWS	"A"	"В"	"C"	"D"	"E"
9	2	1.455 [36.96]	.565 [14.35]	.775 [19.69]	.355 [9.02]	1.230 [31.24]
15	2	1.605 [40.77]	.715 [18.16]	.925 [23.50]	.505 [12.83]	1.380 [35.05]
21	2	1.755 [44.58]	.865 [21.97]	1.075 [27.31]	.655 [16.64]	1.530 [38.86]
25	2	1.855 [47.12]	.965 [24.51]	1.175 [29.85]	.755 [19.18]	1.630 [41.40]
31	2	2.005 [50.93]	1.115 [28.32]	1.325 [33.66]	.905 [22.99]	1.780 [45.21]
37	2	2.155 [54.74]	1.265 [32.13]	1.475 [37.47]	1.055 [26.80]	1.930 [49.02]
51	2	2.505 [63.63]	1.615 [41.02]	1.825 [46.36]	1.405 [35.69]	2.280 [57.91]
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY						



ORDERING GUIDE

1	Series	LMDS Latching Metal Micro-D Socket		
2	Number of Contacts	009 015 021 025 031 037 051 [*] * Use 512 for Two Rows 051		
3	Termination Type	CO Card Edge Surface Mount		
4	Shell Material & Finish	 N Aluminum Shell, Electroless Nickel Plated B Aluminium Shell, Black Anodized CD Aluminium Shell, Cadmium Plated P Stainless Steel Shell, Passivated 		
5	Common Options	PAPanel Mount Rear, O-RingPBPanel Mount, RearHTHigh Temp EpoxyRHRoHS Compliant		
6	Mod Codes	M10 KeyedM30 Ground SpringM50 Space Grade Micro-D, SPT1M53 Space Grade Micro-D, SPT2		
7	Special Instructions	YYY Describe anything that is not covered in standard options		

Omnetics **Latching Micro-D Flex Tail** Connectors provide today's rugged technologies with exceptional security through our quick-latch mechanism. This easy-to-use connector requires no threaded or tools to achieve a supremely secure connection that can endure the rigors of medical, military, aeronautics, and space applications. These high-reliability connectors meet or exceed the shock and vibration requirements of MIL-DTL-83513. They feature Omnetics' one-piece flex pin design to provide additional protection against shock and vibration. We offer this connector in a wide range of configurations to suit your specifications, including shell sizes from 9 to 51 contacts, multiple plating options, and a panel mount version with discrete wire, cable, or solder cup.



Electro-Mechanical Specifications

ТҮРЕ	PERFORMANCE			
Durability	> 2000 Mating Cycles min			
Temperature	-55°C to +125°C (200 °C w/HTE)			
Current rating	3 Amps per contact per MIL-DTL-83513			
Voltage Rating (DWV)	600 VAC RMS Sea Level			
Insulation Resistance	5,000 Megohms @ 500 VDC			
Shock	50 g's with no discontinuties > 1 microsecond			
Vibration	20 g's with no discontinuties > 1 microsecond			
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022			
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513			
Mating/Unmating Force	3 oz. (.85g) typical per contact			

Material Specifications

ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-DTL-83513
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

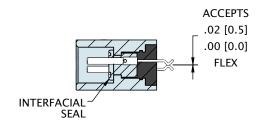
MATERIAL	FINISH			
Aluminum 6061	Electroless Nickel per SAE-AMS-2404			
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700			

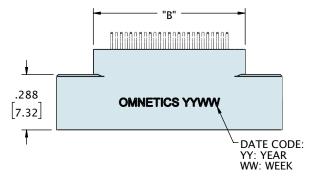
LATCHING MICRO-D FLEX TAIL (TYPE FF)

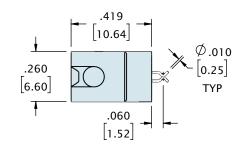


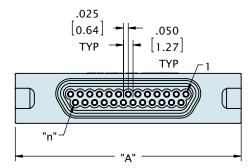


See page 159 for recommended board layout







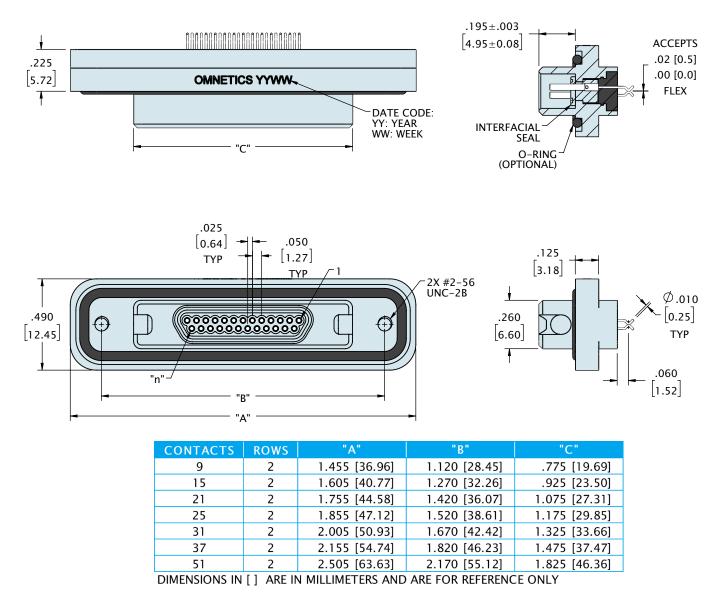


CONTACTS	ROWS	"A"	"B"	
9	2	.775 [19.69]	.390 [9.91]	
15	2	.925 [23.50]	.540 [13.72]	
21	2	1.075 [27.31]	.690 [17.53]	
25	2	1.175 [29.85]	.790 [20.07]	
31	2	1.325 [33.66]	.940 [23.88]	
37	2	1.475 [37.47]	1.090 [27.69]	
51	2	1.825 [46.36]	1.440 [36.58]	
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY				

LATCHING MICRO-D FLEX TAIL (TYPE FF)



See page 159 for recommended board layout



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LATCHING MICRO-D FLEX TAIL (TYPE FF)

ORDERING GUIDE



1	Series	LMDS Latching Metal Micro-D Socket					
2	Number of Contacts	009 015 * Use 512 for Two Ro	O21 ws 051	025	03	1 037	051*
3	Termination Type	FF Flex Tail					
4	Shell Material & Finish	 N Aluminum Shell, Electroless Nickel Plated B Aluminium Shell, Black Anodized CD Aluminium Shell, Cadmium Plated P Stainless Steel Shell, Passivated 					
5	Common Options	PAPanel Mount Rear, O-RingPBPanel Mount, RearHTHigh Temp EpoxyRHRoHS Compliant					
6	Mod Codes	M10KeyedM30Ground SpringM50Space Grade Micro-D, SPT1M53Space Grade Micro-D, SPT		icro-D, SPT2			
7	Special Instructions	YYY Describe anything that is not covered in standard options					

Omnetics Latching Micro-D Straight Thru-Hole Connectors provide today's rugged technologies with exceptional security through our quicklatch mechanism. Simple connectivity in the field can be achieved without threading or tools. Our goal is to serve designers of military, aeronautics, space, and other high-reliability technologies with components that enable their most ambitious ideas. These high-reliability connectors meet or exceed the shock and vibration requirements of MIL-DTL-83513. They feature Omnetics' one-piece flex pin design to provide additional protection. We offer this connector in a wide range of configurations to suit your specifications, including shell sizes from 9 to 51 contacts, multiple plating options, and a panel mount version.



Electro-Mechanical Specifications

ТҮРЕ	PERFORMANCE			
Durability	> 2000 Mating Cycles min			
Temperature	-55°C to +125°C (200 °C w/HTE)			
Current rating	3 Amps per contact per MIL-DTL-83513			
Voltage Rating (DWV)	600 VAC RMS Sea Level			
Insulation Resistance	5,000 Megohms @ 500 VDC			
Shock	50 g's with no discontinuties > 1 microsecond			
Vibration	20 g's with no discontinuties > 1 microsecond			
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022			
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513			
Mating/Unmating Force	3 oz. (.85g) typical per contact			

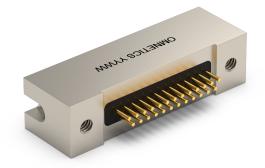
Material Specifications

ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-DTL-83513
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

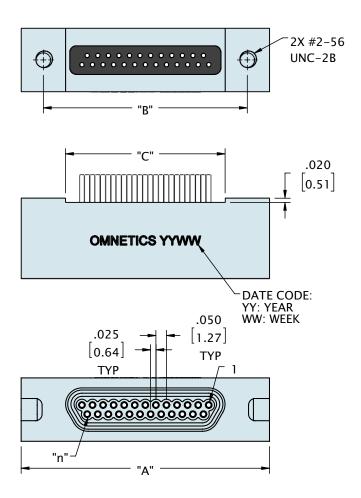
MATERIAL	FINISH	
Aluminum 6061	Electroless Nickel per SAE-AMS-2404	
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700	

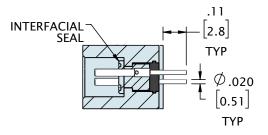
LATCHING MICRO-D STRAIGHT THRU-HOLE (TYPE DD)

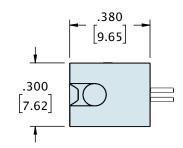




See page 160 for recommended board layout



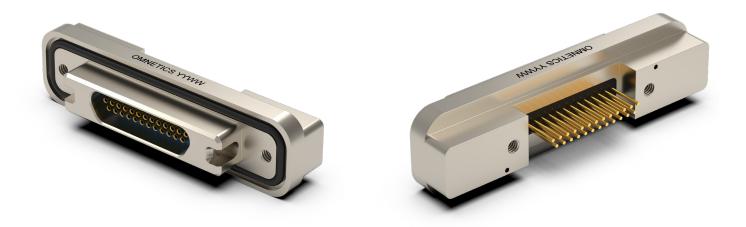




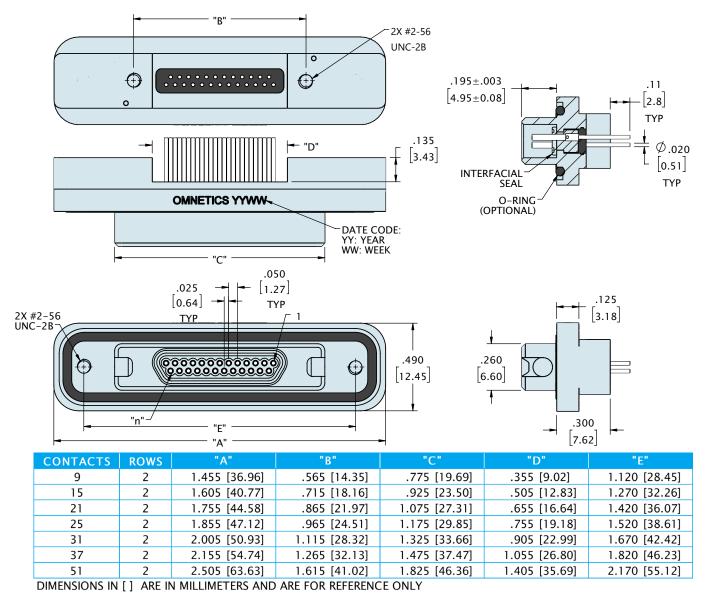
CONTACTS	ROWS	"A"	"B"	"C"	
9	2	.775 [19.69]	.565 [14.35]	.355 [9.02]	
15	2	.925 [23.50]	.715 [18.16]	.505 [12.83]	
21	2	1.075 [27.31]	.865 [21.97]	.655 [16.64]	
25	2	1.175 [29.85]	.965 [24.51]	.755 [19.18]	
31	2	1.325 [33.66]	1.115 [28.32]	.905 [22.99]	
37	2	1.475 [37.47]	1.265 [32.13]	1.055 [26.80]	
51	2	1.825 [46.36]	1.615 [41.02]	1.405 [35.69]	
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY					

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LATCHING MICRO-D STRAIGHT THRU-HOLE (TYPE DD)



See page 160 for recommended board layout





1	Series	LMDS Latching Metal Micro-D Socket			
2	Number of Contacts	009 015 021 025 031 037 051 [*] * Use 512 for Two Rows 051			
3	Termination Type	DD Straight Thru-Hole			
4	Shell Material & Finish	 N Aluminum Shell, Electroless Nickel Plated B Aluminium Shell, Black Anodized CD Aluminium Shell, Cadmium Plated P Stainless Steel Shell, Passivated 			
5	Common Options	PAPanel Mount Rear, O-RingPBPanel Mount, RearHTHigh Temp EpoxyRHRoHS Compliant			
6	Mod Codes	M10 KeyedM30 Ground SpringM50 Space Grade Micro-D, SPT1M53 Space Grade Micro-D, SPT2			
7	Special Instructions	YYY Describe anything that is not covered in standard options			

Omnetics Latching Micro-D Right Angle Thru-Hole Connectors support complex or space-constrained designs. This tiny connector provides the most rugged technologies with exceptional security through our quick-latch mechanism. No threading or tools are needed to achieve a connection. Designers can depend on this connector to perform in the most demanding conditions and in applications where size and weight are concerns. These high-reliability connectors meet or exceed the shock and vibration requirements of MIL-DTL-83513. We offer this connector in a wide range of configurations to suit your specifications, including shell sizes from 9 to 51 contacts, multiple plating options, and a panel mount version with discrete wire, cable, or solder cup.



Electro-Mechanical Specifications

ТҮРЕ	PERFORMANCE	
Durability	> 2000 Mating Cycles min	
Temperature	-55°C to +125°C (200 °C w/HTE)	
Current rating	3 Amps per contact per MIL-DTL-83513	
Voltage Rating (DWV)	600 VAC RMS Sea Level	
Insulation Resistance	5,000 Megohms @ 500 VDC	
Shock	50 g's with no discontinuties > 1 microsecond	
Vibration	20 g's with no discontinuties > 1 microsecond	
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022	
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513	
Mating/Unmating Force	3 oz. (.85g) typical per contact	

Material Specifications

ТҮРЕ	PERFORMANCE	
Contact	Copper Alloy Per MIL-DTL-83513	
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate	
Insulator	Thermoplastic per MIL-DTL-83513	
Interfacial Seal	Silicone Elastomer per A-A-59588	
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700	

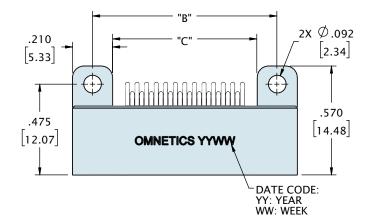
MATERIAL	FINISH	
Aluminum 6061	Electroless Nickel per SAE-AMS-2404	
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700	

LATCHING MICRO-D RIGHT ANGLE THRU-HOLE (TYPE H2)





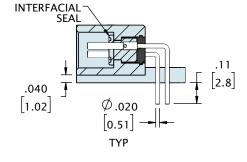
See page 161 for recommended board layout

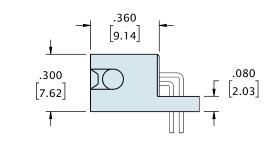


.025

0.64

TYP





CONTACTS	ROWS	"A"	"B"	"C"	
9	2	.775 [19.69]	.565 [14.35]	.355 [9.02]	
15	2	.925 [23.50]	.715 [18.16]	.505 [12.83]	
21	2	1.075 [27.31]	.865 [21.97]	.655 [16.64]	
25	2	1.175 [29.85]	.965 [24.51]	.755 [19.18]	
31	2	1.325 [33.66]	1.115 [28.32]	.905 [22.99]	
37	2	1.475 [37.47]	1.265 [32.13]	1.055 [26.80]	
51	2	1.825 [46.36]	1.615 [41.02]	1.405 [35.69]	
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY					

.050

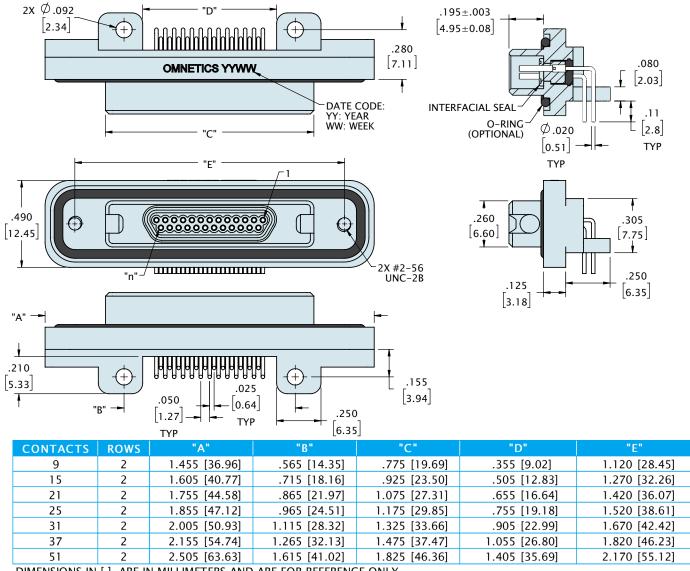
[1.27]

TYP _1

LATCHING MICRO-D RIGHT ANGLE THRU-HOLE (TYPE H2)



See page 161 for recommended board layout



DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY

LATCHING MICRO-D RIGHT ANGLE THRU-HOLE (TYPE H2)



ORDERING GUIDE

1	Series	LMDS Latching Metal Micro-D Socket							
2	Number of Contacts	009 * Use 512	O15 for Two Rov	O21 ws 051	025	03	31	037	051*
3	Termination Type	H2 Righ	it Angle Th	nru-Hole					
4	Shell Material & Finish	 N Aluminum Shell, Electroless Nickel Plated B Aluminium Shell, Black Anodized CD Aluminium Shell, Cadmium Plated P Stainless Steel Shell, Passivate 							
5	Common Options		PAPanel Mount Rear, O-RingPBPanel Mount, ReHTHigh Temp EpoxyRHRoHS Complian						
6	Mod Codes	M10 Ke M50 Sp	eyed bace Grade	e Micro-D,				nd Spring e Grade Mi	icro-D, SPT2
7	Special Instructions	YYY Describe anything that is not covered in standard options			ons				

Omnetics' Latching Single Row Micro-D Connectors offer a rugged quick latch system. They are built to meet or exceed the specifications of MIL-DTL-83513. Highly rugged and compact designs in shell styles from 9 to 37 contacts. The Single Row Latching Micro-D connectors incorporate Omnetics one-piece flex pin design for greater shock and vibration resistance. The high reliability gold plated flex pin is designed for >2,000 mating cycles.



Electro-Mechanical Specifications

ТҮРЕ	PERFORMANCE	
Durability	> 2000 Mating Cycles min	
Temperature	-55°C to +125°C (200 °C w/HTE)	
Current rating	3 Amps per contact per MIL-DTL-83513	
Voltage Rating (DWV)	600 VAC RMS Sea Level	
Insulation Resistance	5,000 Megohms @ 500 VDC	
Shock	50 g's with no discontinuties > 1 microsecond	
Vibration	20 g's with no discontinuties > 1 microsecond	
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022	
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513	
Mating/Unmating Force	3 oz. (.85g) typical per contact	

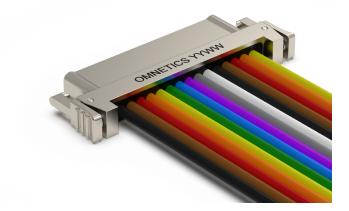
Material Specifications

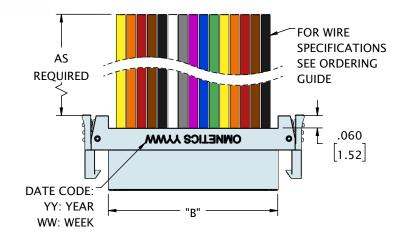
ТҮРЕ	PERFORMANCE	
Contact	Copper Alloy Per MIL-DTL-83513	
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate	
Insulator	Thermoplastic per MIL-DTL-83513	
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700	

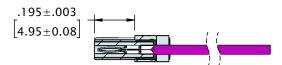
MATERIAL	FINISH	
Aluminum 6061	Electroless Nickel per SAE-AMS-2404	
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700	

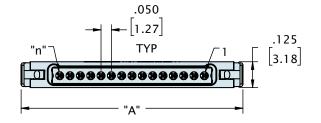
LATCHING SINGLE ROW MICRO-D DISCRETE LEADWIRE (TYPE WD)

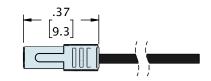








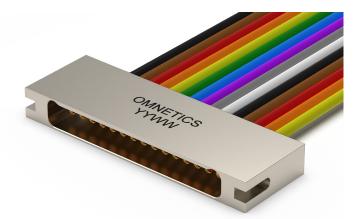


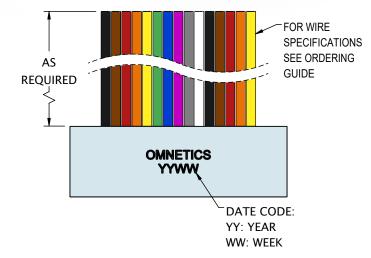


CONTACTS	ROWS	"A"	"B"	
4	1	.52 [13.2]	.270 [6.86]	
9	1	.77 [19.6]	.520 [13.21]	
15	1	1.07 [27.2]	.820 [20.83]	
21	1	1.37 [34.8]	1.120 [28.45]	
25	1	1.57 [39.9]	1.320 [33.53]	
31	1	1.87 [47.5]	1.620 [41.15]	
37	1	2.17 [55.1]	1.920 [48.77]	
DIMENSIONS IN [] ARE IN MULTIMETERS AND ARE FOR REFERENCE ONLY				

DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY

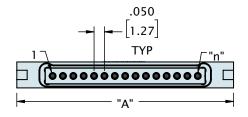
LATCHING SINGLE ROW MICRO-D DISCRETE LEADWIRE (TYPE WD)

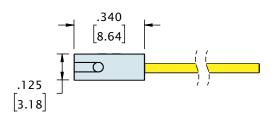












CONTACTS	ROWS	"A"								
4	1	.495 [12.57]								
9	1	.745 [18.92]								
15	1	1.045 [26.54]								
21	1	1.345 [34.16]								
25	1	1.545 [39.24]								
31	1	1.845 [46.86]								
37	1	2.145 [54.48]								
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY										

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		LMS	• Latching	Single Ro	ow Micro-I	⊃ Pin LN	1SS Latcl	ning Single Row I	Micro-D	Socket		
1	Series	LMSP - Latch Side (STD)				LMSS - L	LMSS - Latch Receptacle side (STD)					
2	Number of Contacts	04	09	15	21	25	31	37				
3	Termination Type	WD Discrete Leadwire										
4	Wire AWG	4 24	AWG	6	6 26 AWG (STD)			8 28 AWG				
5	Wire Type	Q Ne	Q Nema HP3 (STD) R M22759/11				S	M22759/33	Х	Other		
6	Wire Length (inches)	18.0	18.0 (STD)					XX.X Custom length				
7	Color Scheme	1 10	Repeating	2 8	Blue	3 White	4	Non Repeating	5	Yellow		
	Shell Material & Finish	N Aluminum Shell, Electroless Nickel Plated CD Aluminium Shell, Cadmium Plate						Plated				
8		B Aluminium Shell, Black Anodized				P Stainless Steel Shell, Passivated						
	Common Options	IBS Integrated Backshell (LMSP only)				BSY (BSY Custom Backshell (LMSP only)					
9		HT High Temp Epoxy				RH Ro	RH RoHS Compliant					
10	Shield / Jacket	D Sli	p On Metal	Braid	E Machir	ne Braid	F Flexo	Braid				
		J Nomex Braid ST Shrink Tube										
11	Mod Code	M10	Keyed			М3О	Ground S	pring				
		M50	Space Gra	de Micro	-D, SPT1	M53	Space Gra	ade Micro-D, SPT	2			
12	Special Instructions	YYY Describe anything that is not covered in standard options										

Omnetics' Latching Single Row Micro-D Solder Cup Connectors offer a rugged quick latch system. These connector feature Solder Cup termination and are built to meet or exceed the specifications of MIL-DTL-83513. Highly rugged and compact designs in shell styles from 9 to 37 contacts. The Single Row Micro-D connectors incorporate Omnetics one-piece flex pin design for greater shock and vibration resistance. The high reliability gold plated flex pin is designed for >2,000 mating cycles.



ТҮРЕ	PERFORMANCE
Durability	> 2000 Mating Cycles min
Temperature	-55°C to +125°C (200 °C w/HTE)
Current rating	3 Amps per contact per MIL-DTL-83513
Voltage Rating (DWV)	600 VAC RMS Sea Level
Insulation Resistance	5,000 Megohms @ 500 VDC
Shock	50 g's with no discontinuties > 1 microsecond
Vibration	20 g's with no discontinuties > 1 microsecond
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
Mating/Unmating Force	3 oz. (.85g) typical per contact

Electro-Mechanical Specifications

Material Specifications

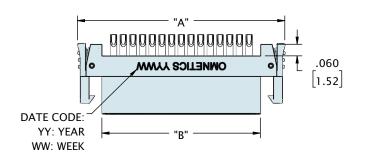
ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-DTL-83513
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

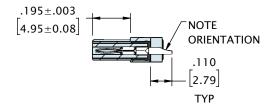
MATERIAL	FINISH
Aluminum 6061	Electroless Nickel per SAE-AMS-2404
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700

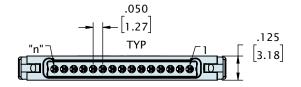
LATCHING SINGLE ROW MICRO-D SOLDER CUP (TYPE SS)













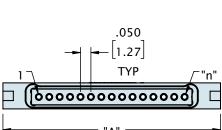
CONTACTS	ROWS	"A"	"B"			
4	1	.52 [13.2]	.270 [6.86]			
9	1	.77 [19.6]	.520 [13.21]			
15	1	1.07 [27.2]	.820 [20.83]			
21	1	1.37 [34.8]	1.120 [28.45]			
25	1	1.57 [39.9]	1.320 [33.53]			
31	1	1.87 [47.5]	1.620 [41.15]			
37	1	2.17 [55.1]	1.920 [48.77]			
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY						

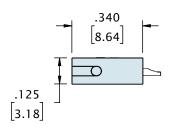
137

LATCHING SINGLE ROW MICRO-D SOLDER CUP (TYPE SS)









CONTACTS	ROWS	"A"				
4	1	.495 [12.57]				
9	1	.745 [18.92]				
15	1	1.045 [26.54]				
21	1	1.345 [34.16]				
25	1	1.545 [39.24]				
31	1	1.845 [46.86]				
37	1	2.145 [54.48]				
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY						

"A"

LATCHING SINGLE ROW MICRO-D SOLDER CUP (TYPE SS)

ORDERING GUIDE



1	Series	LMSP	Latching	Single Ro	w Micro-D I	Pin LM	ISS Latch	ning Sing	le Row Micro-D Socket
<u> </u>	Series	LMSP - L	atch Side (STD)			LMSS - L	atch Rece	ptacle side (STD)
2	Number of Contacts	04	09	15	21	25	31	37	
3	Termination Type	SS Solo	dercup						
		N Aluminum Shell, Electroless Nickel Platec			Plated	ated CD Aluminium Shell, Cadmium Plated			
4	Shell Material & Finish	B Aluminium Shell, Black Anodized			P Stainless Steel Shell, Passivated				
5	Common Options	BSY C	ustom Ba	ackshell (L	MSP only)	HT Hi	gh Temp	Ероху	RH RoHS Compliant
		м10 к	eyed			М30	Ground Sp	oring	
6	Mod Code	M50 Space Grade Micro-D, SPT1			M53 Space Grade Micro-D, SPT2				
7	Special Instructions	YYY D	escribe	anything	that is not o	covered in	n standaro	d options	;

Omnetics' Latching Single Row Micro-D 90° Board Mount Connectors offer a rugged quick latch system. This connector features a compact board termination and are built to meet or exceed the specifications of MIL-DTL-83513. Highly rugged and compact designs in shell styles from 9 to 37 contacts. The Single Row Micro-D connectors incorporate Omnetics one-piece flex pin design for greater shock and vibration resistance. The high reliability gold plated flex pin is designed for >2,000 mating cycles.



Electro-Mechanical Specifications

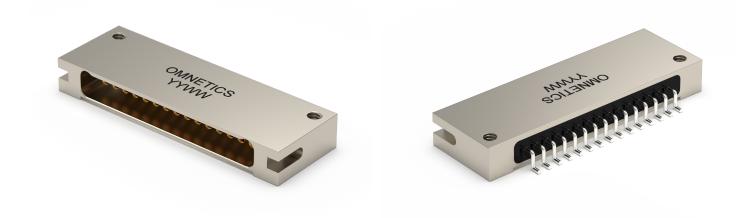
ТҮРЕ	PERFORMANCE
Durability	> 2000 Mating Cycles min
Temperature	-55°C to +125°C (200 °C w/HTE)
Current rating	3 Amps per contact per MIL-DTL-83513
Voltage Rating (DWV)	600 VAC RMS Sea Level
Insulation Resistance	5,000 Megohms @ 500 VDC
Shock	50 g's with no discontinuties > 1 microsecond
Vibration	20 g's with no discontinuties > 1 microsecond
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
Mating/Unmating Force	3 oz. (.85g) typical per contact

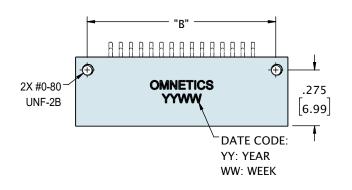
Material Specifications

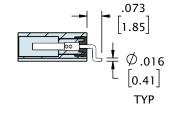
ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-DTL-83513
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

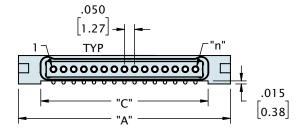
MATERIAL	FINISH
Aluminum 6061	Electroless Nickel per SAE-AMS-2404
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700

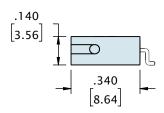
LATCHING SINGLE ROW MICRO-D 90° BOARD MOUNT (TYPE AA)





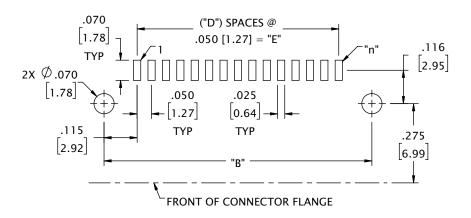






CONTACTS	ROWS	"A"	"B"	"C"
4	1	.495 [12.57]	.380 [9.65]	.275 [6.99]
9	1	.745 [18.92]	.630 [16.00]	.525 [13.34]
15	1	1.045 [26.54]	.930 [23.62]	.825 [20.96]
21	1	1.345 [34.16]	1.230 [31.24]	1.125 [28.58]
25	1	1.545 [39.24]	1.430 [36.32]	1.325 [33.66]
31	1	1.845 [46.86]	1.730 [43.94]	1.625 [41.28]
37	1	2.145 [54.48]	2.030 [51.56]	1.925 [48.90]

LATCHING SINGLE ROW MICRO-D 90° BOARD MOUNT LAYOUT



CONTACTS	ROWS	"B"	"D"	"E"
4	1	.380 [9.65]	3	.150 [3.81]
9	1	.630 [16.00]	8	.400 [10.16]
15	1	.930 [23.62]	14	.700 [17.78]
21	1	1.230 [31.24]	20	1.000 [25.40]
25	1	1.430 [36.32]	24	1.200 [30.48]
31	1	1.730 [43.94]	30	1.500 [38.10]
37	1	2.030 [51.56]	36	1.800 [45.72]



1	Series	LMSS La	LMSS Latching Micro-D Single Row Socket							
2	Number of Contacts	04	09	15	21	25	31	37		
3	Termination Type	AA 90° I	Board Mc	ount						
4	Shell Material & Finish		 Aluminum Shell, Electroless Nickel Plated Aluminium Shell, Black Anodized 					CD Aluminium Shell, Cadmium PlatedP Stainless Steel Shell, Passivated		
5	Common Options	HT High	HT High Temp Epoxy					RH RoHS Compliant		
6	Mod Codes	-						M30 Ground Spring M53 Space Grade Micro-D, SPT2		
7	Special Instructions	YYY Describe anything that is not covered in standard options								

Omnetics' Latching Single Row Micro-D Straight Thru-Hole Board Mount Connectors offer a rugged quick latch system. This connector features a compact board termination and are built to meet or exceed the specifications of MIL-DTL-83513. Highly rugged and compact designs in shell styles from 9 to 37 contacts. The Single Row Micro-D connectors incorporate Omnetics one-piece flex pin design for greater shock and vibration resistance. The high reliability gold plated flex pin is designed for >2,000 mating cycles.



ТҮРЕ	PERFORMANCE			
Durability	> 2000 Mating Cycles min			
Temperature	-55°C to +125°C (200 °C w/HTE)			
Current rating	3 Amps per contact per MIL-DTL-83513			
Voltage Rating (DWV)	600 VAC RMS Sea Level			
Insulation Resistance	5,000 Megohms @ 500 VDC			
Shock	50 g's with no discontinuties > 1 microsecond			
Vibration	20 g's with no discontinuties > 1 microsecond			
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022			
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513			
Mating/Unmating Force	3 oz. (.85g) typical per contact			

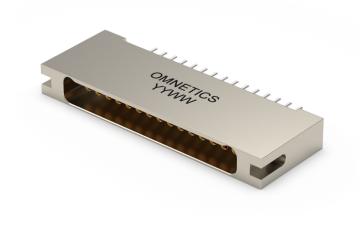
Electro-Mechanical Specifications

Material Specifications

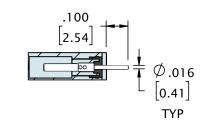
ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-DTL-83513
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

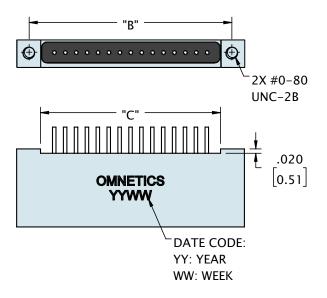
MATERIAL	FINISH
Aluminum 6061	Electroless Nickel per SAE-AMS-2404
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700

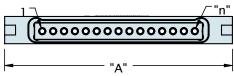
LATCHING MICRO-D SINGLE ROW STRAIGHT THRU-HOLE (TYPE DD)

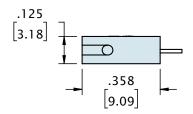






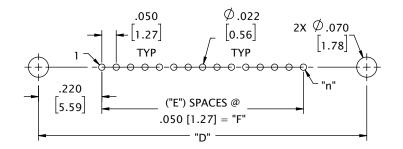






CONTACTS	ROWS	"A"	"B"	"C"			
4	1	.495 [12.57]	.380 [9.65]	.276 [7.01]			
9	1	.745 [18.92]	.630 [16.00]	.526 [13.36]			
15	1	1.045 [26.54]	.930 [23.62]	.826 [20.98]			
21	1	1.345 [34.16]	1.230 [31.24]	1.126 [28.60]			
25	1	1.545 [39.24]	1.430 [36.32]	1.326 [33.68]			
31	1	1.845 [46.86]	1.730 [43.94]	1.626 [41.30]			
37	1	2.145 [54.48]	2.030 [51.56]	1.926 [48.92]			
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY							

LATCHING MICRO-D SINGLE ROW STRAIGHT THRU-HOLE BOARD MOUNT LAYOUT



CONTACTS	ROWS	"B"	"E"	"F"
4	1	.590 [14.99]	3	.150 [3.81]
9	1	.840 [21.34]	8	.400 [10.16]
15	1	1.140 [28.96]	14	.700 [17.78]
21	1	1.440 [36.58]	20	1.000 [25.40]
25	1	1.640 [41.66]	24	1.200 [30.48]
31	1	1.940 [49.28]	30	1.500 [38.10]
37	1	2.240 [56.90]	36	1.800 [45.72]



1	Series	LMSS	LMSS Latching Micro-D Single Row Socket							
2	Number of Contacts	04	04 09 15 21 25 31 37							
3	Termination Type	DD S	traight Thr	u-Hole						
			N Aluminum Shell, Electroless Nickel Plated				CD A	luminium Shell, Cadr	nium Plated	
4	Shell Material & Finish	B Alu	B Aluminium Shell, Black Anodized					P Stainless Steel Shell, Passivated		
5	Common Options	нт н	HT High Temp Epoxy					oHS Compliant		
		M10 Keyed M30 Ground Spring					Spring			
6	Mod Codes	M50	M50 Space Grade Micro-D, SPT1 M53 Sp					Space Grade Micro-D, SPT2		
7	Special Instructions	YYY Describe anything that is not covered in standard options								

Omnetics' Latching Single Row Micro-D Right Angle Thru-Hole Board Mount Connectors offer a rugged quick latch system. This connector features a compact board termination and are built to meet or exceed the specifications of MIL-DTL-83513. Highly rugged and compact designs in shell styles from 9 to 37 contacts. The Single Row Micro-D connectors incorporate Omnetics one-piece flex pin design for greater shock and vibration resistance. The high reliability gold plated flex pin is designed for >2,000 mating cycles.



Electro-Mechanical Specifications

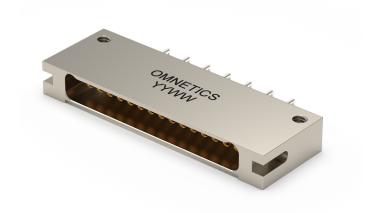
ТҮРЕ	PERFORMANCE				
Durability	> 2000 Mating Cycles min				
Temperature	-55°C to +125°C (200 °C w/HTE)				
Current rating	3 Amps per contact per MIL-DTL-83513				
Voltage Rating (DWV)	600 VAC RMS Sea Level				
Insulation Resistance	5,000 Megohms @ 500 VDC 50 g's with no discontinuties > 1 microsecond				
Shock					
Vibration	20 g's with no discontinuties > 1 microsecond				
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM - NASA SP-R-0022				
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513				
Mating/Unmating Force	3 oz. (.85g) typical per contact				

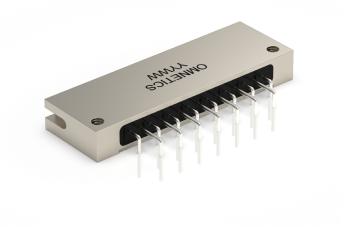
Material Specifications

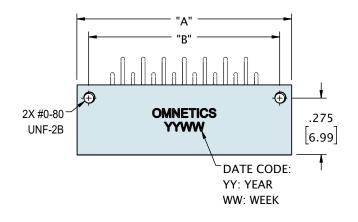
ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-DTL-83513
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

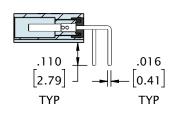
MATERIAL	FINISH
Aluminum 6061	Electroless Nickel per SAE-AMS-2404
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700

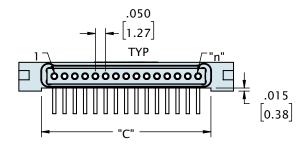
LATCHING MICRO-D SINGLE ROW RIGHT ANGLE THRU-HOLE (TYPE H2)

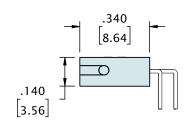






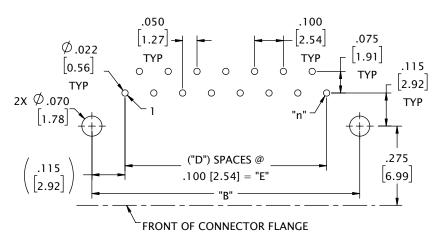






CONTACTS	ROWS	"A"	"B"	"C"			
4	1	.495 [12.57]	.380 [9.65]	.275 [6.99]			
9	1	.745 [18.92]	.630 [16.00]	.525 [13.34]			
15	1	1.045 [26.54]	.930 [23.62]	.825 [20.96]			
21	1	1.345 [34.16]	1.230 [31.24]	1.125 [28.58]			
25	1	1.545 [39.24]	1.430 [36.32]	1.325 [33.66]			
31	1	1.845 [46.86]	1.730 [43.94]	1.625 [41.28]			
37	1	2.145 [54.48]	2.030 [51.56]	1.925 [48.90]			
DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY							

LATCHING MICRO-D SINGLE ROW RIGHT ANGLE THRU-HOLE BOARD MOUNT LAYOUT



ROWS	"В"	"D"	"E"
1	.380 [9.65]	3	.300 [7.62]
1	.630 [16.00]	8	.800 [20.32]
1	.930 [23.62]	14	1.400 [35.56]
1	1.230 [31.24]	20	2.000 [50.80]
1	1.430 [36.32]	24	2.400 [60.96]
1	1.730 [43.94]	30	3.000 [76.20]
1	2.030 [51.56]	36	3.600 [91.44]
	ROWS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 .380 [9.65] 1 .630 [16.00] 1 .930 [23.62] 1 1.230 [31.24] 1 1.430 [36.32] 1 1.730 [43.94]	1 .380 [9.65] 3 1 .630 [16.00] 8 1 .930 [23.62] 14 1 1.230 [31.24] 20 1 1.430 [36.32] 24 1 1.730 [43.94] 30

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DNV-GL

LATCHING MICRO-D SINGLE ROW RIGHT ANGLE THRU-HOLE (TYPE H2)



ORDERING GUIDE

1	Series	LMSS	LMSS Latching Micro-D Single Row Socket								
2	Number of Contacts	04	04 09 15 21 25 31 37								
3	Termination Type	H2 R	ight Angle ⁻	Thru-Hole	e						
4	Shell Material & Finish		N Aluminum Shell, Electroless Nickel PlatedB Aluminium Shell, Black Anodized					CD Aluminium Shell, Cadmium PlatedP Stainless Steel Shell, Passivated			
5	Common Options	нт н	igh Temp E	роху			RH R	oHS Compliant			
6	Mod Codes							round Spring bace Grade Micro-D, SPT2			
7	Special Instructions	YYY Describe anything that is not covered in standard options									