## DUAL ROW VERTICAL SMT (TYPE VV)

As electronic devices scale down, Omnetics is ready with ever-smaller connectors designed to offer exceptional performance in reduced package sizes. Our **Vertical SMT Bi-Lobe**<sup>®</sup> nano connectors require minimal board space on flex circuits and printed circuit boards. These connectors feature Omnetics' highly reliable Flex Pin contact system and are available with threaded mounting holes and retention screws. Omnetics' Vertical SMT Type VV Bi-Lobe<sup>®</sup> nano connectors are available in a wide range of configurations to meet the needs of a variety of critical applications. These connectors are available in standard sizes ranging from 9 through 91 positions, as well as custom configurations.



#### **Electro-Mechanical Specifications**

ТҮРЕ	PERFORMANCE			
Durability	> 2000 Mating Cycles min			
Temperature	-55°C to +125 °C (200 °C w/HTE)			
Current rating	1 Amp per contact			
Voltage Rating (DWV)	250 VAC RMS Sea Level			
Insulation Resistance	5,000 Megohms @ 100 VDC			
Shock	100 g's discontinuity < 10 nanoseconds			
Vibration	20 g's discontinuity < 10 nanoseconds			
Thermal Vacuum Outgassing	1.0% max TML, 0.1% VCM			
Contact Resistance	87 milliohms (87 mV) max @ 1 Amp			
Mating/Unmating Force	2.5 oz. (.71g) typical per contact			

#### **Material Specifications**

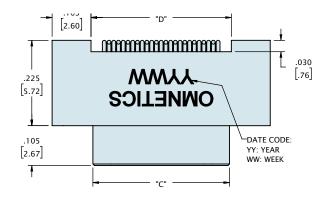
ТҮРЕ	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-32139
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-M-24519
Encapsulant	Ероху

### Shell Options

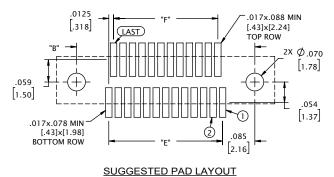
ТҮРЕ	PERFORMANCE		
Aluminum 6061	Electroless Nickel per SAE-AMS-2404		
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700		

# DUAL ROW VERTICAL SMT (TYPE VV)

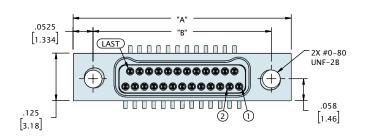


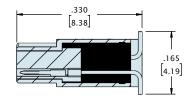






(VIEW FROM MOUNTING SIDE OF BOARD)





CONTACTS	"A"	"B"	"C"	"D"	"E"	"F"		
09	.375 [9.53]	.270 [6.86]	.160 [4.06]	.170 [4.32]	.100 [2.54]	.075 [1.91]		
15	.450 [11.43]	.345 [8.76]	.235 [5.97]	.245 [6.22]	.175 [4.45]	.150 [3.81]		
21	.525 [13.34]	.420 [10.67]	.310 [7.87]	.320 [8.13]	.250 [6.35]	.225 [5.72]		
25	.575 [14.61]	.470 [11.94]	.360 [9.14]	.370 [9.40]	.218 [5.54]	.193 [4.90]		
31	.650 [16.51]	.545 [13.84]	.435 [11.05]	.445 [11.30]	.375 [9.53]	.350 [8.89]		
37	.725 [18.42]	.620 [15.75]	.510 [12.95]	.520 [13.21]	.450 [11.43]	.425 [10.80]		
51	.900 [22.86]	.795 [20.19]	.685 [17.40]	.695 [17.65]	.625 [15.88]	.600 [15.24]		
65	1.075 [27.31]	.970 [24.64]	.860 [21.84]	.870 [22.10]	.800 [20.32]	.775 [19.69]		
69	1.125 [28.58]	1.020 [25.91]	.910 [23.11]	.920 [23.37]	.850 [21.59]	.825 [20.96]		
85	1.325 [33.66]	1.220 [30.99]	1.110 [28.19]	1.120 [28.45]	1.050 [26.67]	1.025 [26.04]		
91	1.452 [36.88]	1.321 [33.55]	1.185 [30.10]	1.195 [30.35]	1.125 [28.58]	1.100 [27.94]		
DIMENSIONS IN	DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY							

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