# OMNETICS

www.omnetics.com

#### INTERCONNECT SOLUTIONS

# **Omnetics**

Omnetics is a world-class miniature connector design and manufacturing company with over 30 years of experience, focused on Micro-miniature and Nano-miniature highly reliable electronic connectors and interconnection systems. Our miniature connectors are designed and assembled in a single location at our plant in Minneapolis, Minnesota.

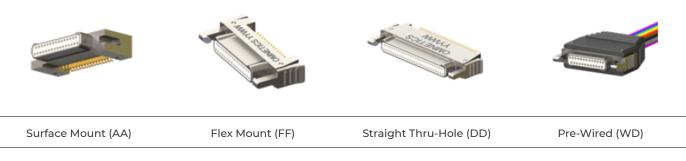
## • MIL Spec Requirement vs. Omnetics

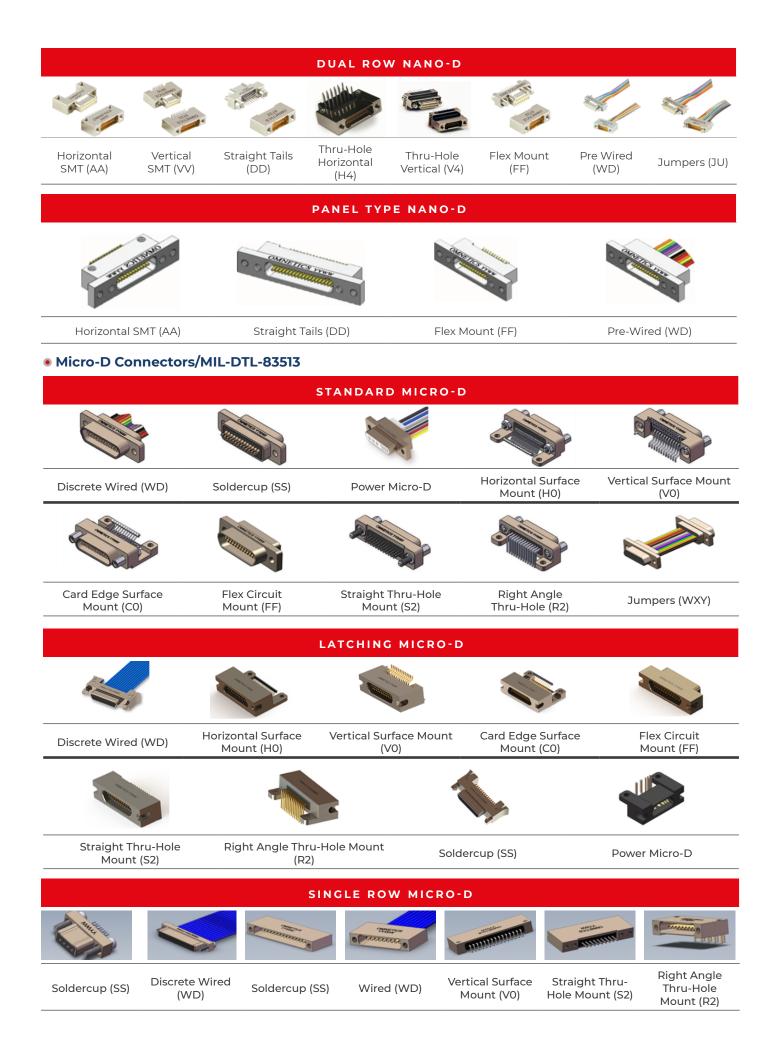
TEST	MICRO - D MIL-DTL-83513 (1.27 mm pitch)	<b>NANO - D</b> MIL-DTL-32139 (.64 mm pitch)
Content Resistance	26 mΩ	71 mΩ
	9 mΩ	13 mΩ
Shock	50 G	100 G
	500 G	500 G
Durability	500 Mating Cycles	200 Mating Cycles
	2000 Mating Cycles	2000 Mating Cycles
Temperature	-55°C to +125°C	-55°C to +125°C
	-270°C up to 260°C	-270°C up to 200°C

#### Nano-D Connectors/MIL-DTL-32139



LATCHING NANO-D









(R2)

Discrete Wired (WD)

Right Angle Thru-Hole (H1)

hru-Hole So

Solder Cup (SS)

Straight Thru-Hole (S2)

## • Power and Signal Micro Hybrids: 10A, 5A, 3A



#### Nano Coax Connectors

Omnetics Nano Coax contacts are available either in a Hybrid Micro-D or as a standalone contact.. The standalone version provides optimal performance in one of the lowest form factors on the market. The Nano Coax contacts are designed to be terminated to a low-loss 29 AWG (.047") 50 coax cable. Cable: 20GHz / Edge Launch: 20GHz / Thru Hole: 10GHz



#### Micro 360® Circular Connectors

Omnetics' Micro Circular Connector Series utilizes Omnetics' rugged and reliable Flex-Pin contact system, is spaced on 50 mil (1.27mm) centerlines, features a mated length of less than 12.4 mm, and is specified to MIL-DTL-83513.











Micro Plastic Circulars

Micro Threaded Metal Shell Circulars

Micro Twist Lock Metal Shell Circulars

Micro Break Away Circulars

Micro ACME Triple Thread Ratcheting Circulars

#### • Nano 360® Circular Connectors

Omnetics' Nano Circular Connector Series utilizes Omnetics' rugged and reliable Flex-Pin contact system, is spaced on 25 mil (.64mm) centerlines, has a 9.0 mm mated length, and is specified to MIL-DTL-32139. These ultra miniature circular connectors are ideal for industries that require small and durable performance.





#### • IP68 Micro Circulars





• Capabilities





#### INTERCONNECT - OMNETICS