

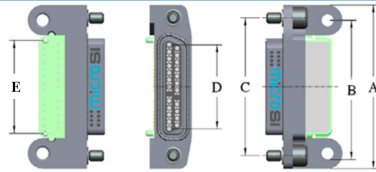


## microSI™

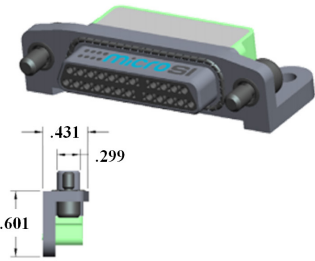
### MKSI – Right Angle (Male)

MKSI right angle board surface mount connectors are used in applications where signal integrity is desired. The connector interface controls the polarization of the connector. Comes with a variety of hardware options.

### GENERAL DIMENSIONS



SIZE	A	B	C	D	E
1X	1.636	1.330	1.377	0.840	0.930
4X	2.266	1.960	2.007	1.470	1.560
8X	3.106	2.800	2.847	2.310	2.400



### Sample Part Number Format: MKSI-01R-1000-175-2810



**SERIES**  
 Right Angle (Male)  
 1.78 mm



**SIZE & INTERFACE POLARIZATION\***  
 01L – 1X Left (23 pins, 4 DP +9SB)  
 01R – 1X Right (23 pins, 4 DP +9SB)  
 04L – 4X Left (41 pins, 10 DP +9SB)  
 04R – 4X Right (41 pins, 10 DP +9SB)  
 08L – 8X Left (65 pins, 18 DP +9SB)  
 08R – 8X Right (65 pins, 18 DP +9SB)



**STYLE**  
 1000 – Male



**PIN TERMINATION (50 μ" Au Contact)**  
 175 – Sn/Pb alloy   
 178 – SAC305



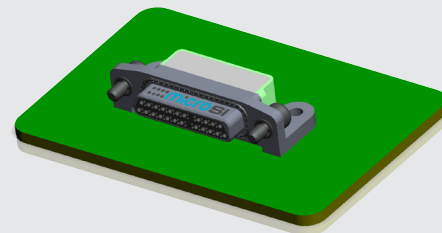
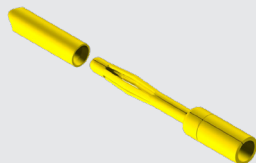
**BODY PLATING**  
 2 – Electroless nickel  
 6 – Gold



**HARDWARE**  
 620 – Fixed jacknut  
 810 – Turning jackscrews, captivated\*\*  
 NXX – Keying jacknuts\*\*\*  
 JXX – Keying jackscrews\*\*\*

### High-Reliability Contact

MIL-DTL-83513



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### NOTES

- Option not RoHS-compliant.
- \* Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. Polarization matches the angled side. Sidebands are on the non-angled side.
- \*\* Captivated hardware is factory-installed and non-removable.
- \*\*\* Factory-installed and non-removable. Refer to "Keying Hardware Options" on page 61.

### MATERIALS and FINISHES

Socket Contact:	Brass
Pin Contacts:	BeCu alloy strip
Contact Finish:	Gold plate, 50 μ" minimum
Shells:	Aluminum alloy 6061-T6
Shell Finishes:	Electroless nickel or gold
Molded Insulators:	Glass-filled liquid crystal polymer (LCP)
Embedment:	Frey Eng. Co. compound CF3003-80 & L-II-49
Hardware:	Corrosion-resistant steel
Interfacial Seal Gaskets:	Fluorosilicone
EMI Gaskets:	Corrosion-resistant steel

NOTE: AirBorn can manufacture special configurations to your exact specifications.

### SIGNAL INTEGRITY PERFORMANCE (Connectors Only)

1	Diff. Impedance, filtered to 79 ps (20-80%)	100 ohm
2	Diff. Insertion Loss	10 GHz @ -3 dB
3	Diff. Return Loss	7.5 GHz @ -10 dB
4	Intra-Pair	< 2 ps

### PERFORMANCE

Contact Rating:	3 amperes maximum
Operating Temperature:	-55° C to 125° C
Maximum Working Voltage:	200V, RMS, 60Hz
Insulation Resistance	5,000 megohms minimum @ 500 VDC
Durability:	500 connector mating cycles
Contact Engaging Force:	6.0 ounces maximum/contact
Contact Separating Force:	0.5 ounces minimum/contact
Mating and Unmating Force:	10 ounces maximum/contact

NOTE: Performance values are estimates at this time. Actual values will be determined when final product testing is complete.