



# microQUAD™

## MKHS – Right Angle Surface Board-Mount (Female)

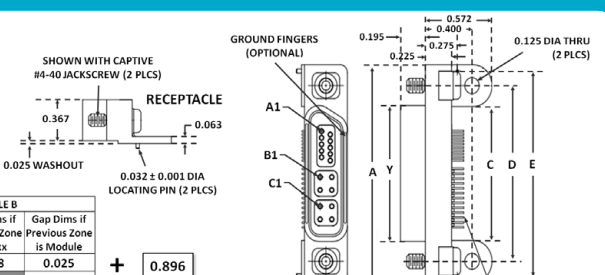
MKHS are rugged metal connectors used in applications where a right angle orientation and a surface board-mount termination style are desired.

### DIMENSIONS

DIMENSIONS	
A	Body Length (see calculation below)
C	"A" minus 0.640
D	"A" minus 0.320
E	"A" minus 0.096
Y	"A" minus 0.624

Module	Dimension
SIG 10	0.321
SIG 20	0.571
SIG 30	0.821
SIG 40	1.071
SIG 50	1.321

Module	Gap Dims if Previous Zone is SIGxx	Gap Dims if Previous Zone is Module
Module	0.028	0.025
SIG xx		0.028



0.013 ± 0.001 DIA TYP

### ORDER FORM

Sample Part Number Format: MKHS-XXXX-XXX-XXX-XXXX

**ENTER CODE**

MKHS

**ENTER CODE**

**ENTER CODE**

**ENTER CODE**

**ENTER CODE**

**ENTER CODE**

**ENTER CODE**


<p><b>SERIES</b> Right Angle Surface Mount (Female)</p>	<p><b>HIGH-SPEED MODULES</b> 01 – 1 Module 02 – 2 Modules 03 – 3 Modules 04 – 4 Modules 05 – 5 Modules (max. sig. 40) 06 – 6 Modules (max. sig. 30) 07 – 7 Modules (max. sig. 20) 08 – 8 Modules (max. sig. 10) 09 – 9 Modules (max. sig. 10) 0A – 10 Modules (no signals)</p>	<p><b>BODY STYLE</b> 200 – Female 400 – Female with Ground Fingers (preferred)</p>	<p><b>TERMINATION PLATING</b> 5 – 50 μ" Gold Contact, Sn/Pb Alloy Termination ☒ 7 – 50 μ" Gold Contact, SAC305-Plated Termination</p>	<p><b>HARDWARE</b> 000 – No Hardware 620 – Two Fixed Jacknuts Captivated** 810 – Turning Jackscrews Captivated** NXX – Keying Jacknuts*** JXX – Keying Jackscrews***</p>
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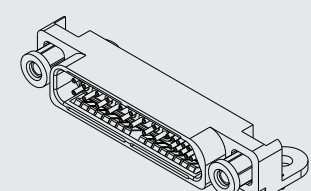
**CONTACT TERMINATION**  
27 – Socket, Horizontal Surface-Mount (SMT)

**SIGNAL CONTACTS**  
L0 – Left Side Key – No Signal Contacts  
L1 – Left Side Key – 10 Signal Contacts  
L2 – Left Side Key – 20 Signal Contacts  
L3 – Left Side Key – 30 Signal Contacts  
L4 – Left Side Key – 40 Signal Contacts  
L5 – Left Side Key – 50 Signal Contacts  
R0 – Right Side Key – No Signal Contacts  
R1 – Right Side Key – 10 Signal Contacts  
R2 – Right Side Key – 20 Signal Contacts  
R3 – Right Side Key – 30 Signal Contacts  
R4 – Right Side Key – 40 Signal Contacts  
R5 – Right Side Key – 50 Signal Contacts

**BODY PLATING (LCP INSULATORS)**  
2 – Electroless Nickel-Plated Aluminum Shell  
3 – Electrodeposited Cadmium-Plated Aluminum Shell ☒  
6 – Gold-Plated Aluminum Shell

**High-Reliability Contact**  
MIL-DTL-83513





PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

### NOTES

1. All high-speed receptacles have fluoropolymer interfacial seals.
- ☒ Option not RoHS compliant.
- \* Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. The key is the angled side of the interface.
- \*\* Captivated hardware is factory-installed and non-removable.
- \*\*\* Refer to "Hardware Polarization" catalog page for keying options.

### 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, electrodeposited cadmium, or gold-plated
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 70 ps (20-80%)	100 ohm +/- 10
2	Diff. Insertion Loss	4.0 GHz @ -3 dB
3	Diff. Return Loss	1.8 GHz @ -20 dB
4	Intra-Pair	15 ps

### PERFORMANCE

Contact Rating:	3 amperes maximum
Operating Temperature:	-55° C to 125° C
Maximum Working Voltage:	600V, 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