



## 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

### ORDER FORM

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

**MKHS**

**SERIES**  
Right Angle Surface Mount (Female)

**ENTER CODE**

**HIGH-SPEED MODULES**  
 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)

**ENTER CODE**

**BODY STYLE**  
 200 – Female  
 400 – Female with Ground Fingers (preferred)

**ENTER CODE**

**CONTACT TERMINATION**  
 27 – Socket, Horizontal Surface-Mount (SMT)

**ENTER CODE**

**TERMINATION PLATING**  
 5 – 50 μ" Gold Contact, Sn/Pb Alloy Termination   
 7 – 50 μ" Gold Contact, SAC305-Plated Termination

**ENTER CODE**

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

**ENTER CODE**

**HARDWARE**  
 000 – No Hardware  
 620 – Two Fixed Jacknuts Captivated\*\*  
 810 – Turning Jackscrews Captivated\*\*  
 NXX – Keying Jacknuts\*\*\*  
 JXX – Keying Jackscrews\*\*\*

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

**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

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