



microQUAD™

MKHS – Right Angle Surface Board-Mount (Male)

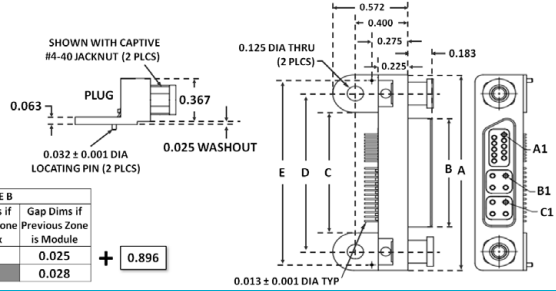
MKHS are rugged metal connectors used in applications where a right angle orientation and a surface board-mount termination style are desired.

DIMENSIONS

DIMENSIONS	
A	Body Length (see calculation below)
B	"A" minus 0.744
C	"A" minus 0.640
D	"A" minus 0.320
E	"A" minus 0.096

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

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



ORDER FORM

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

MKHS	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE
SERIES Right Angle Surface Mount (Male)	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)	BODY STYLE 100 – Plug	CONTACT TERMINATION 17 – Pin, Horizontal Surface-Mount (SMT)	TERMINATION PLATING 5 – 50 μ" Gold Contact, Sn/Pb Alloy Termination <input type="checkbox"/> 7 – 50 μ" Gold Contact, SAC305-Plated Termination	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

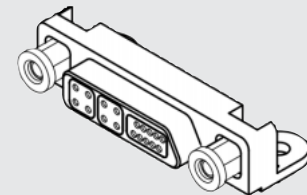


SIGNAL CONTACTS

- 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

BODY PLATING (LCP INSULATORS)

- 2 – Electroless Nickel-Plated Aluminum Shell
- 3 – Electrodeposited Cadmium-Plated Aluminum Shell
- 6 – Gold-Plated Aluminum Shell



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

NOTES

- 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