

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 0.680
D	"A" minus 0.320
E	"A" minus 0.096
Y	"A" minus 0.624

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	0.028

+ 0.896

ORDER FORM

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

ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	ENTER CODE	
MKHS							
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	BODY PLATING (LCP INSULATORS) 2 – Electroless Nickel-Plated Aluminum Shell 3 – Electrodeposited Cadmium-Plated Aluminum Shell <input type="checkbox"/> 6 – Gold-Plated Aluminum Shell	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						

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 & 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.

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 & Unmating Force: 10 ounces maximum/contact

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