

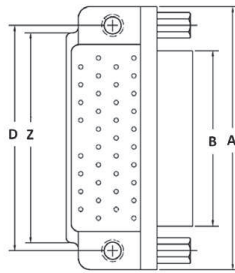


**M** MICRO  
SERIES 0.050"  
(1.27 mm)

**MSHT – Low-Profile, Right Angle Board-Mount (Male)**

MSHT interconnects are used in high-temperature applications where a right angle, plated thru-hole termination is desired for mounting. The narrow footprint on this connector helps save board space.

**DIMENSIONS**



DIMENSIONS					
SIZE	ROWS	A	B (MAX)	D	Z
9	2	.778	.292	.565	.775
15		.928	.442	.715	.925
21		1.078	.592	.865	1.075
25		1.178	.692	.965	1.175
31		1.328	.842	1.115	1.080
37	3	1.478	.992	1.265	1.180
51		1.428	.942	1.215	1.220

Please reference MSHTM-DIM-1 for more detail.

**ORDER FORM**

Sample Part Number Format: MSHT-252-037-323-220S

<b>MSHT</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>
<b>SERIES</b> 0.050" Low-Profile Metal PC Board-Mount Connector (Male)	<b>ROWS</b> 2 – 2-Row (9-37 contacts) 3 – 3-Row (51 contacts)	<b>BODY STYLE</b> 5 – Plug, right angle, narrow footprint with threaded inserts.	<b>BODY MATERIAL</b> 2 – High-temp thermoplastic with electroless nickel shell 4 – High-temp thermoplastic with hard black anodized shell 5 – High-temp with stainless steel shell	<b>SIZE</b> 009 – 9 Contacts 015 – 15 Contacts 021 – 21 Contacts 025 – 25 Contacts 031 – 31 Contacts 037 – 37 Contacts 051 – 51 Contacts	<b>PLATING</b> 3 – 50 μ" Au contacts; Au terminations	<b>POLARIZATION</b> 0S – Standard body polarization	<b>CONTACT/TERMINATION TYPE</b> 32 – Pin, right angle, 0.109" x 0.020" dia 33 – Pin, right angle, 0.140" x 0.020" dia 34 – Pin, right angle, 0.172" x 0.020" dia	<b>HARDWARE</b> 00 – No hardware 22 – Two fixed jacknut assemblies

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

**NOTES**

**MATERIALS and FINISHES**

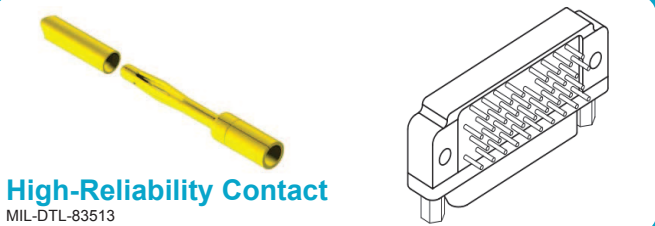
Pin Contacts: ..... Copper-based alloy strip  
 Contact Finish: ..... Gold plate per ASTM B488, SAE AMS-2422  
 Shells: ..... Aluminum alloy 6061-T6 per SAE AMS-QQ-A-250/11 or 6061-T6511 per SAE AMS-QQ-A-200/8  
 Shell Finishes: ..... Electroless nickel per SAE AMS-2402, Class 3, 500 μ" minimum or black anodized per MIL-A-8625, Type III Class 2, or 303 stainless steel per ASTM A581/A581M or ASTM A582/A582M, passivated per SAE AMS-2700  
 Molded Insulators: ..... High-temp thermoplastic  
 Embedment: ..... High-temp epoxy  
 Hardware: ..... Corrosion-resistant steel per ASTM A582/A582M, passivated per ASTM A967, SAE AMS-QQ-P-35  
 Tolerances: ..... Angles: ±5°  
 (unless otherwise specified) ..... Decimals: ±0.010"; Fractions: ±1/64"  
 Wire lengths – insulated/stranded: +1.0/-0.0"  
 uninsulated/solid: +0.02/-0.0"

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

**PERFORMANCE**

Contact Rating: ..... 3 amperes maximum  
 Operating Temperature: ..... -55° C to 205° C  
 Test 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

**MSHT-252-037-323-220S**



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

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