

Introduction/
Pkg. Solutions/
Brush Contact

LRM (Line Replaceable Modules)
Options - Fiber Optics / Staggered/
GEN-X
Accessories
Hi Speed/RF/Power

Ruggedized
VME64x/
VITA 60, 66

High Density
HSB³
Hi Speed

Low Mating Force MIL-DTL-55302
Docking Conn./
Accessories/Install.
Hybrids - Signal/Power/
Coax/Fiber Optics
Standard
Brush

Rack & Panel
Brush
Ruggedized

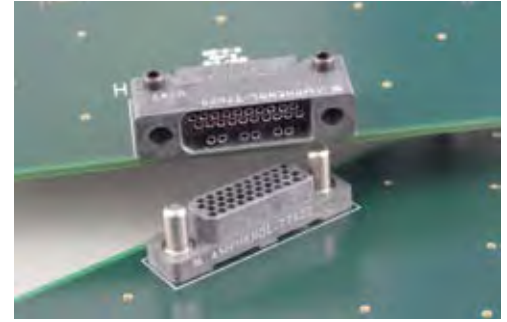
LMD/LMS
Rectangular
Interconnects

Other
Rectangular
Interconnects

HSB³ - HIGH SPEED SERIES 6.250 GBS

High speed configuration available that allows data rates up to 6.250 Gb/s via 100 ohm matched impedance differential pairs.

- Partially populated standard HDB³ mother board and daughter board bodies
- Contact an Amphenol sales engineer for validation results



HSB³ HIGH SPEED MOTHER BOARD - HOW TO ORDER

Mates with:

- High Speed Daughter Board

1. Connector Type

HSB-M4

Designates High Speed HDB³ I/O Connector

	1.	2.	3.	4.	5.	6.	7.
		Number of Differential Pairs	Differential Signal	Brush Wire Plating	Termination	Contact Termination Finish	Less Hardware (Purchased separately see pg XX for hardware options)
HSB-M4	HSB-M4	-03	D	M	24	2	X

2. Number of Contacts

Number Differential Pairs	No. Low Speed Signals	Dimension A	Dimension C
03	20	1.375	1.075
05	30	1.725	1.425
07	40	2.075	1.775
10	60	2.775	2.475
13	80	3.475	3.175

3. Differential Signal

D	Standard
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4. Brush Wire Plating

M	0.000050 Au Min. thick over Nickel
C	0.000020 Au Min. thick over Nickel

5. Termination

	Type	Stickout (Dim. E)
22	PCB, Straight, .016 Dia	0.120
23	PCB, Straight, .016 Dia	0.150
24	PCB, Straight, .016 Dia	0.180
26	PCB, Straight, .016 Dia	0.240
28	PCB, Straight, .016 Dia	0.300

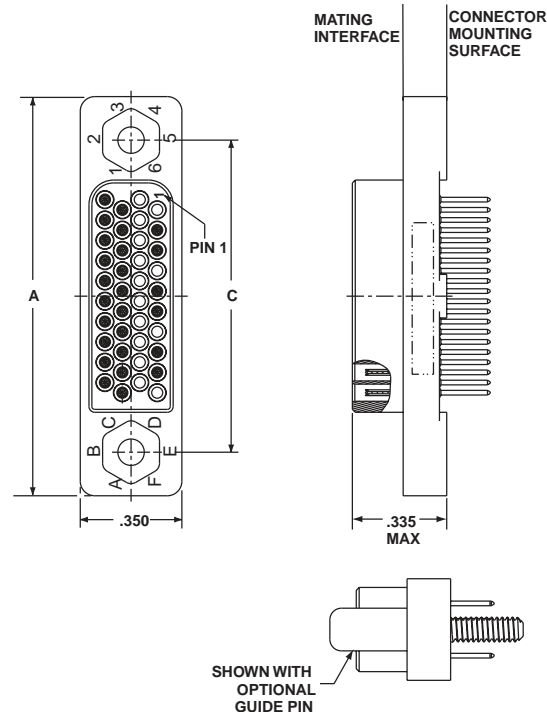
6. Contact Termination Finish

2	Gold plated in accordance with MIL-G-45204, Type II, .000030 Min. thick Gold over .000050 Min. thick Nickel	
5	Tin plated in accordance with ASTM B545, .00010 Min. thick Matte Tin over .00010 Min. thick Nickel	
6	Tin-Lead plated in accordance with SAE-AMS-P-81728, .00010 Min. thick Tin-Lead over .00010 Min. thick Copper	

7. Hardware

X	Less Hardware
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Hardware is purchased separately (see page 59 for hardware options).



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

[HSB-M4-03DM222X](#) [HSB-M4-03DC225X](#) [HSB-M4-03DC235X](#) [HSB-M4-03DM242X](#) [HSB-M4-07DM245X](#) [HSB-M4-07DM262X](#) [HSB-M4-07DM242X](#) [HSB-M4-03DC235T](#) [HSB-M4-07DM222X](#) [HSB-M4-03DM232T](#) [HSB-M4-13DM222X](#)
[HSB-M4-05DC222X](#) [HSB-M4-10DM222X](#) [HSB-M4-03DM262X](#)