

Multiport SMPX Coax Solderless Board Mount Connectors

High-Density Vertical Launch, Blind-Mateable

Package Contents

Connector	1 Pc
Protection Cap	1 Pc
Mounting Kit (ordered separately)	1 Pc

Mechanical Specifications

Force to engage per Channel	0.9 lb.
Force to disengage per Channel	1.32 lb.
Mating Cycles	≥ 5000 Cycles
Installation Cycles	100 Cycles

Electrical Specifications

Impedance	50 Ohms
Frequency Range	DC to 110 GHz
Insertion Loss	< -0.06 dB at 110 GHz
Return Loss	< -24 dB at 110 GHz

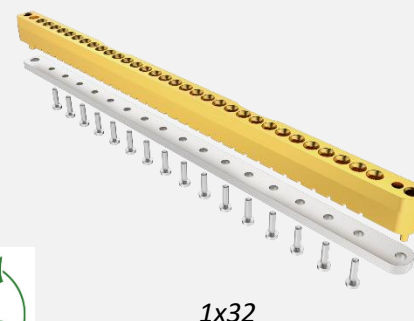
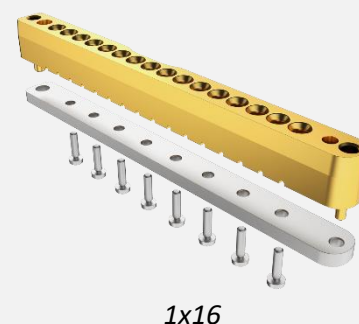
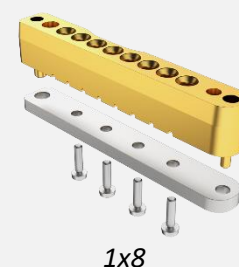
Environmental Specifications

Temperature Range	-40 to +120 °C
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Interface Handling: Electrical performance assumes clean, dry, and undamaged connector interfaces

Protect unmated interfaces with clean caps during shipment and storage; caps provide contamination and mechanical protection only and do not guarantee an IP rating

Inspect and clean interfaces before mating



Multiport SMPX Coax Solderless Board Mount Connectors

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How to Order:

Ports	Connector Part Number	Mounting Kit Part Number	Drawing	Notes
1x2	MLBMC-SMPXBMVSB12	MLBMC-AK-SMPXBMVSB12-X	Page 3, 4	X refers to the PCB Thickness Indicator for mounting kits. X values are listed in the following table below
1x4	MLBMC-SMPXBMVSB14	MLBMC-AK-SMPXBMVSB14-X	Page 5, 6	
1x8	MLBMC-SMPXBMVSB18	MLBMC-AK-SMPXBMVSB18-X	Page 7, 8	
1x16	MLBMC-SMPXBMVSB116	MLBMC-AK-SMPXBMVSB116-X	Page 9, 10	
1x32	MLBMC-SMPXBMVSB132	MLBMC-AK-SMPXBMVSB132-X	Page 11, 12	
2x8	MLBMC-SMPXBMVSB28HF00	MLBMC-AK-SMPXBMVSB28HF00-X	Page 13, 14	

PCB Thickness Indicator for Mounting Kit (X):

X	PCB Thickness 1x2,1x4,1x8,1x16,1x32	X	PCB Thickness 2x8	X	PCB Thickness 2x8
1	0.8 mm $\leq t \leq$ 1.8 mm	1	0.7 mm $\leq t \leq$ 1.3 mm	8	4.3 mm $< t \leq$ 4.8 mm
2	1.8 mm $< t \leq$ 2.8 mm	2	1.3 mm $< t \leq$ 1.8 mm	9	4.8 mm $< t \leq$ 5.3 mm
3	2.8 mm $< t \leq$ 3.8 mm	3	1.8 mm $< t \leq$ 2.3 mm	10	5.3 mm $< t \leq$ 5.8 mm
4	3.8 mm $< t \leq$ 4.8 mm	4	2.3 mm $< t \leq$ 2.8 mm	11	5.8 mm $< t \leq$ 6.3 mm
5	4.8 mm $< t \leq$ 5.8 mm	5	2.8 mm $< t \leq$ 3.3 mm	12	6.3 mm $< t \leq$ 6.8 mm
6	5.8 mm $< t \leq$ 6.8 mm	6	3.3 mm $< t \leq$ 3.8 mm	13	6.8 mm $< t \leq$ 7.3 mm
7	6.8 mm $< t \leq$ 7.8 mm	7	3.8 mm $< t \leq$ 4.3 mm		

Example:

PN: MLBMC-SMPXBMVSB18

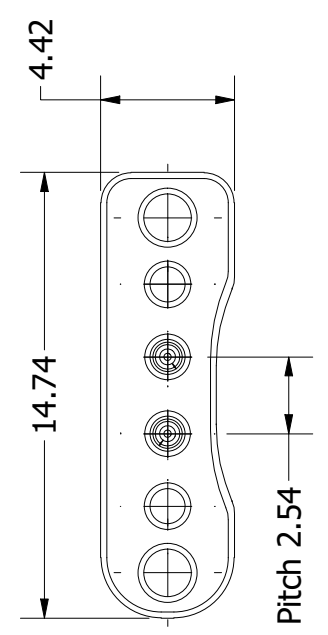
Description: Solderless Board Mount Connector, 1x8 SMPX (M) Vertical Mount, Smooth Bore

PN: MLBMC-AK-SMPXBMVSB18-2

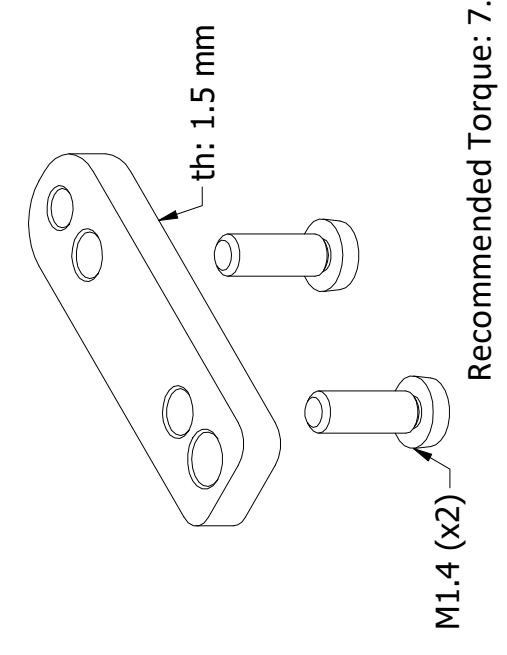
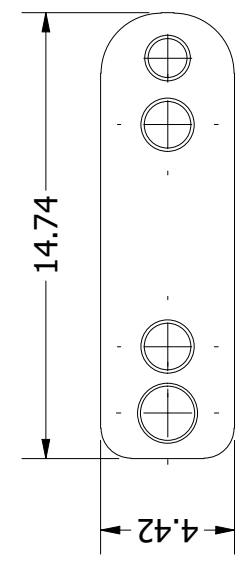
Description: Mounting Kit for 1x8 SMPX (M) Vertical Mount (for 1.8 mm $<$ PCB thickness $\leq$ 2.8 mm)

CAD Drawing

MLBMC-SMPXBMVSB12



MLBMC-AK-SMPXBMVSB12-X





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Title: Board Mount Connector, 1x2 SMPX (M), Vertical Mount, Smooth Bore. Mounting Kit for 1x2 SMPX Vertical Male.

Notes:
1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.

Rev: A

Scale: 4:1

4



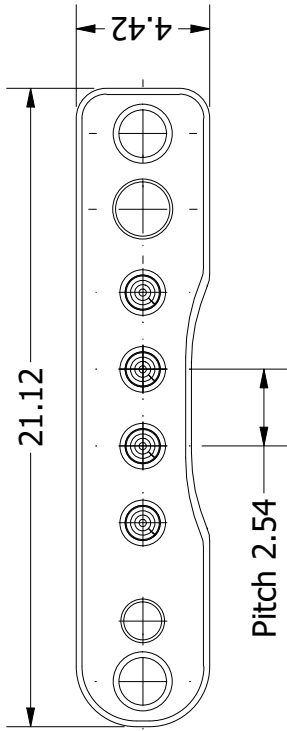
Rev: B

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.

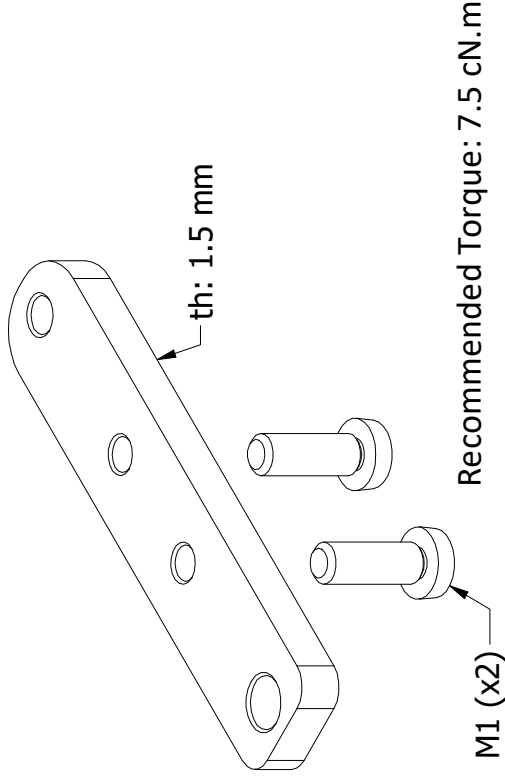
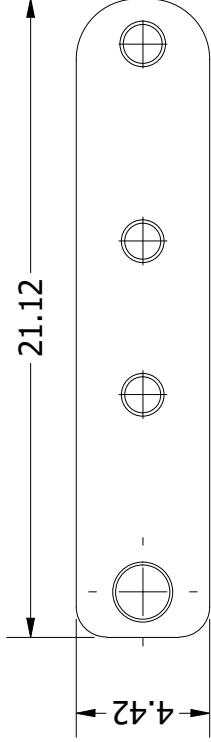
Scale: 4:1

CAD Drawing

MLBMC-SMPXBMVSB14



MLBMC-AK-SMPXBMVSB14-X



Title:

Board Mount Connector, 1x4 SMPX (M),
Vertical Mount, Smooth Bore.
Mounting Kit for 1x4 SMPX Vertical Male.

Notes:

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.



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Rev: A

Scale: 4:1

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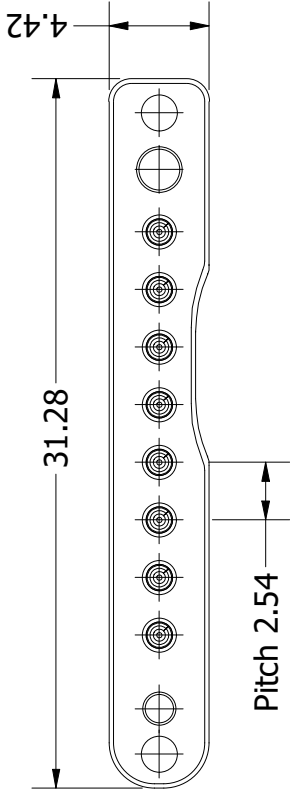
1x4 SMPX Blind-Mate (M), Vertical Mount,
Recommended Footprint.

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.

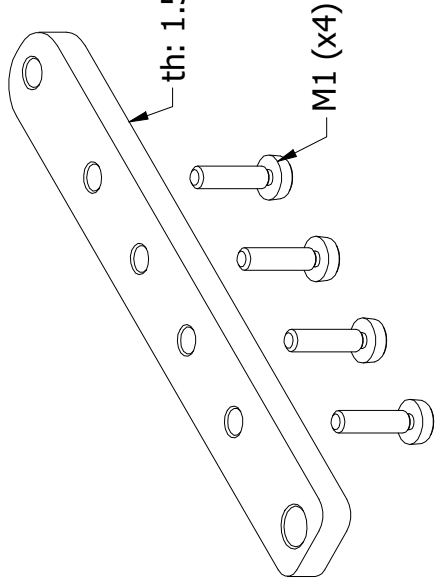
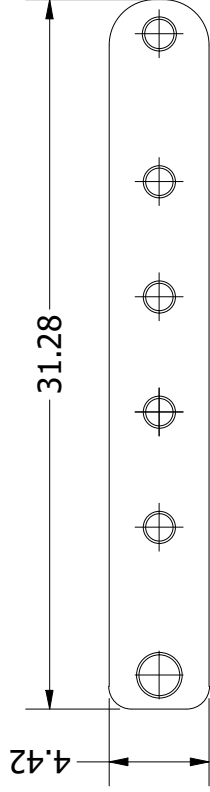
Scale: 4:1

CAD Drawing

MILBMC-SMPXBMVSB18



MILBMC-AK-SMPXBMVSB18-X



Recommended Torque: 7.5 cN.m

Title:

Board Mount Connector, 1x8 SMPX (M),
Vertical Mount, Smooth Bore.
Mounting Kit for 1x8 SMPX Vertical Male.

Notes:

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.

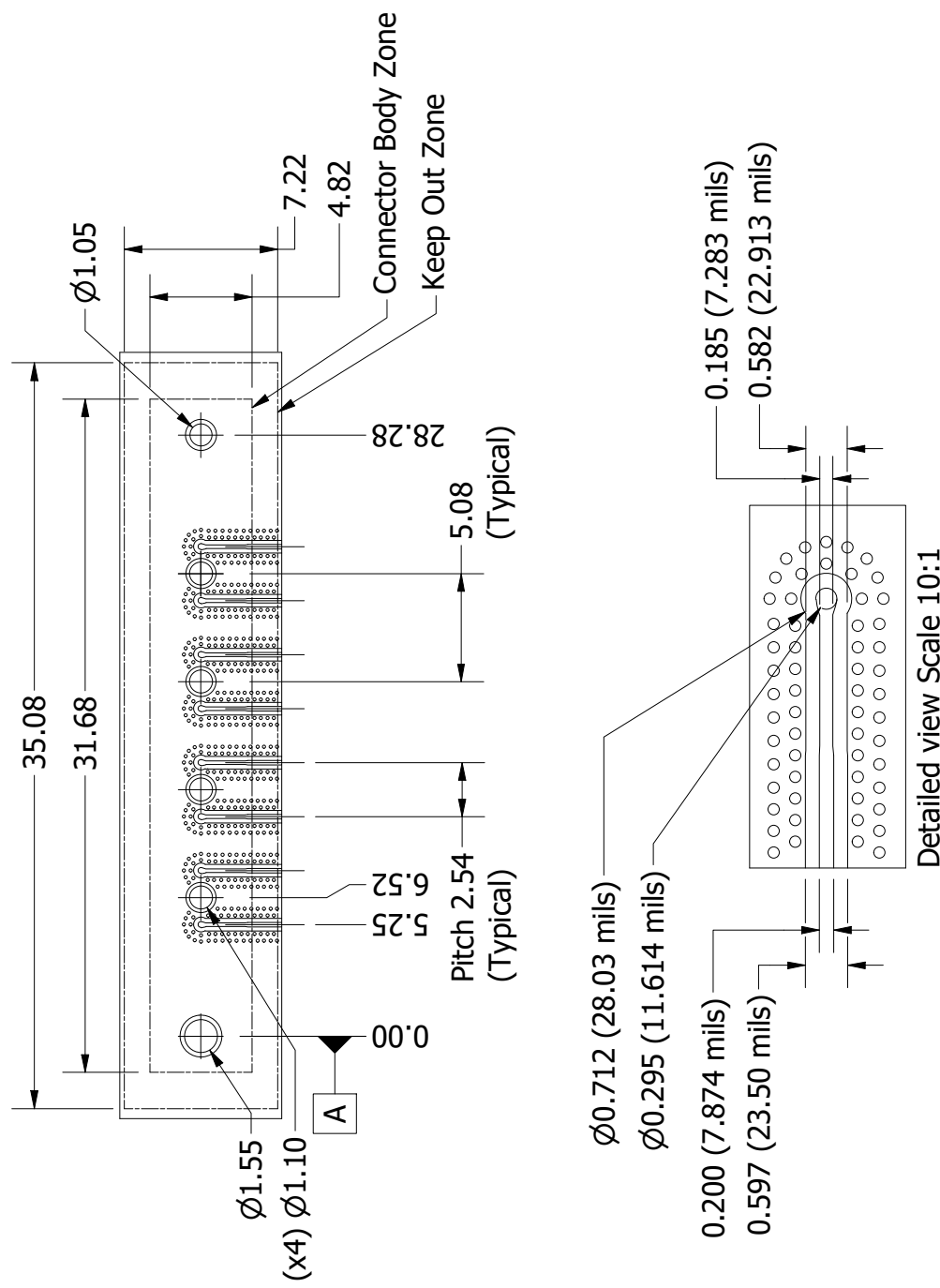
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Rev: A

Scale: 3:1

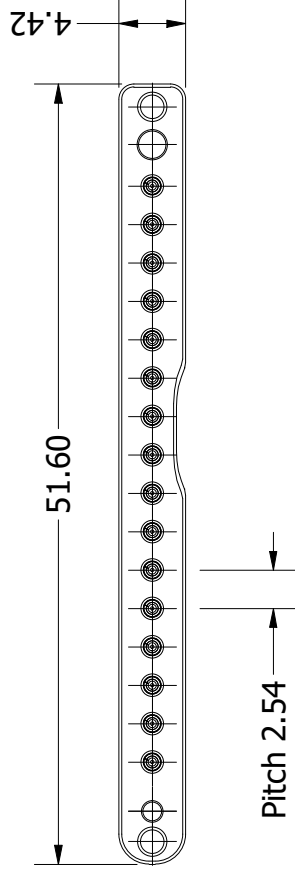
CAD Drawing



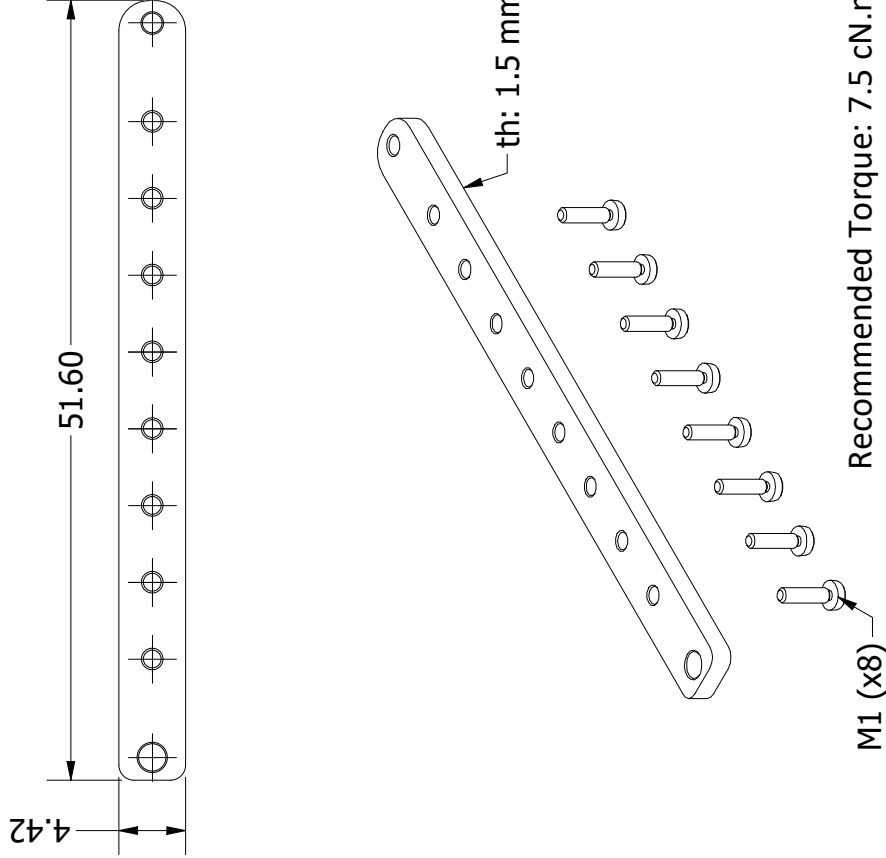
 www.multilaneinc.com sales@multilaneinc.com	Title: 1x8 SMPX Blind-Mate (M), Vertical Mount, Recommended Footprint.	Notes: 1. All dimensions are in millimetres unless otherwise specified. 2. These characteristics are typical and for reference.
	Rev: B	Scale: 3:1

CAD Drawing

MLBMC-SMPXBMSB116



MLBMC-AK-SMPXBMSB116-X



Title:

Board Mount Connector, 1x16 SMPX (M),
Vertical Mount, Smooth Bore.
Mounting Kit for 1x16 SMPX Vertical Male.

Notes:

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.

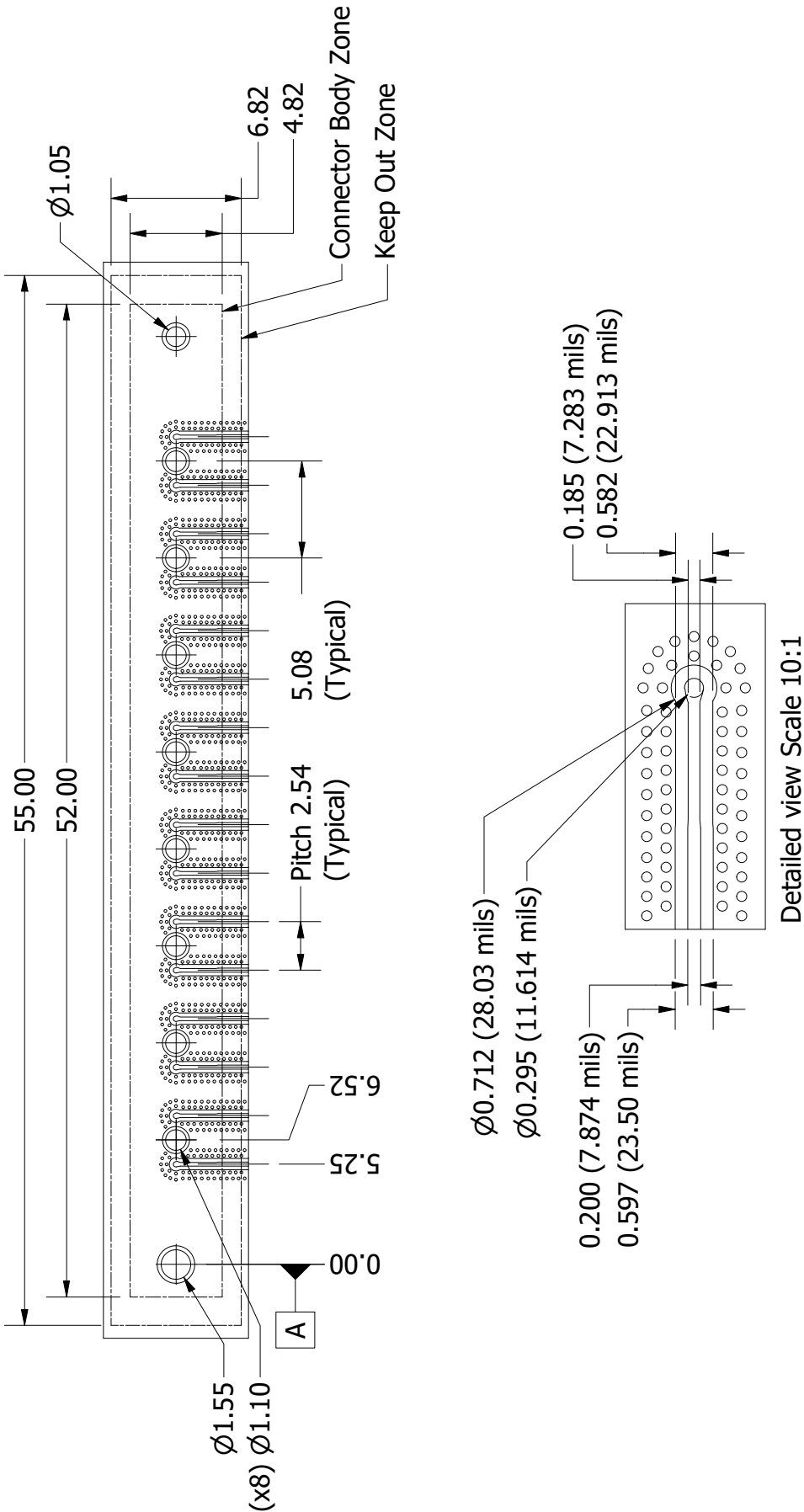
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Rev: A

Scale: 2:1

CAD Drawing



Title:

1x16 SMPX Blind-Mate (M), Vertical Mount,
Recommended Footprint.

Notes:

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.



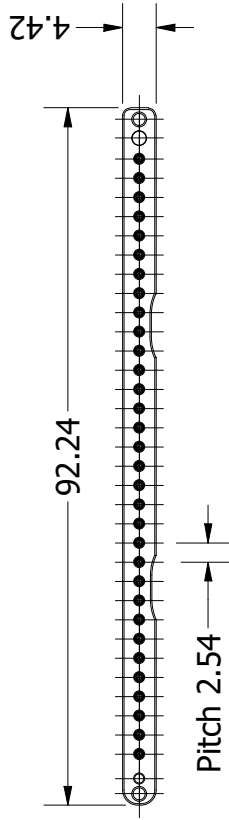
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Rev: B

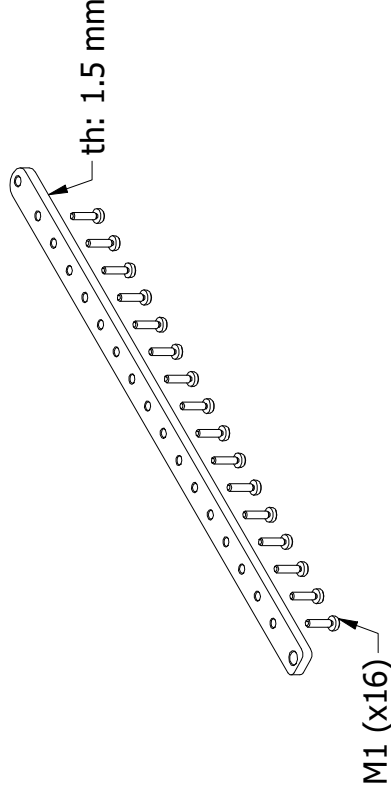
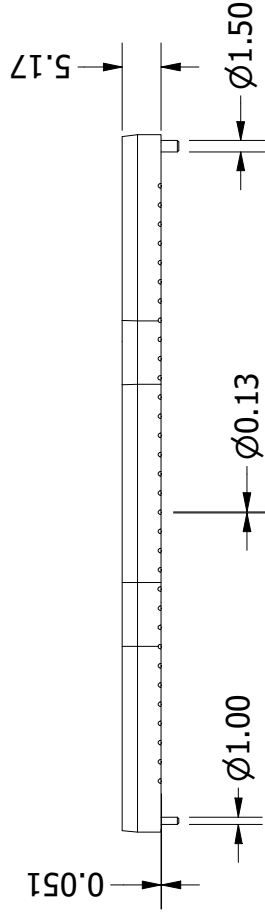
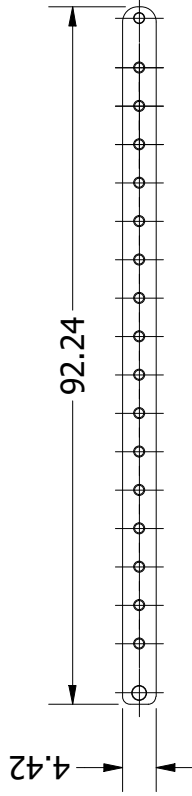
Scale: 3:1

CAD Drawing

MLBMC-SMPXBMVSB132



MLBMC-AK-SMPXBMVSB132-X



Recommended Torque: 7.5 cN.m

Title:

Board Mount Connector, 1x32 SMPX (M),
Vertical Mount, Smooth Bore.
Mounting Kit for 1x32 SMPX Vertical Male.

Notes:

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.

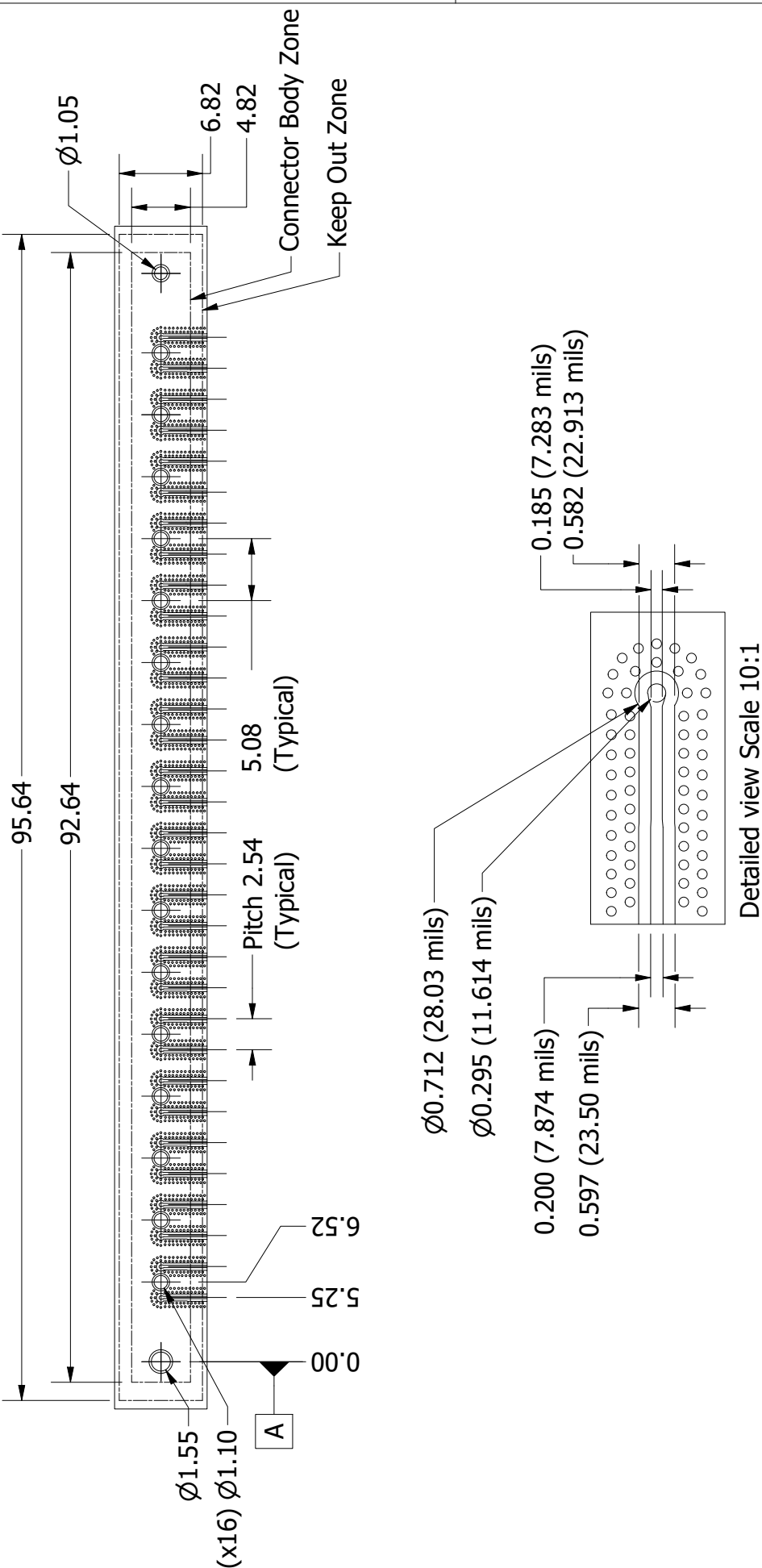
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Rev: A

Scale: 1:1

CAD Drawing



Title:

1x32 SMPX Blind-Mate (M), Vertical Mount,
Recommended Footprint.

Notes:

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.



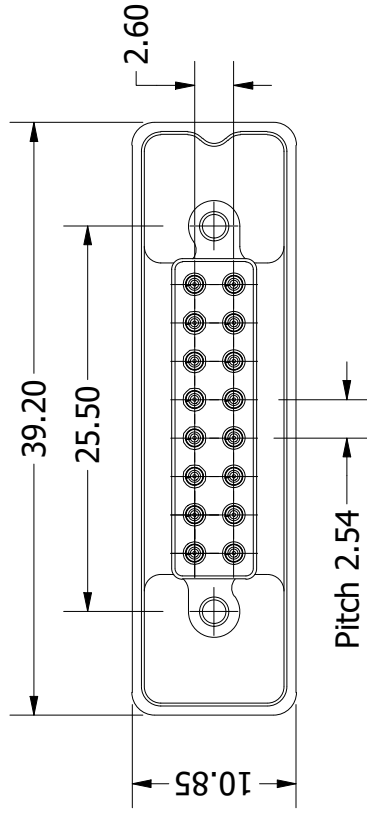
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Rev: B

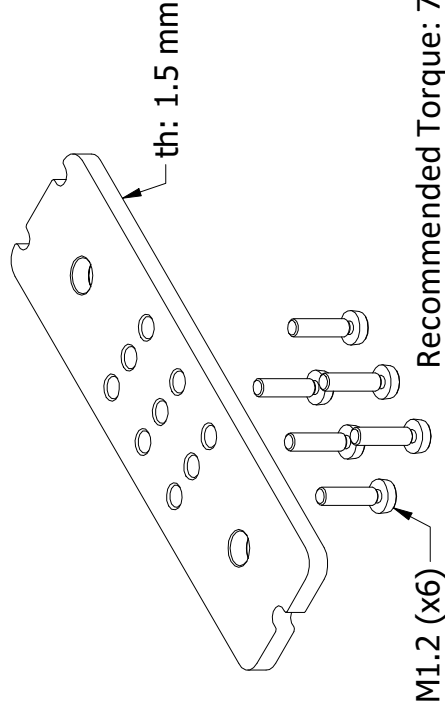
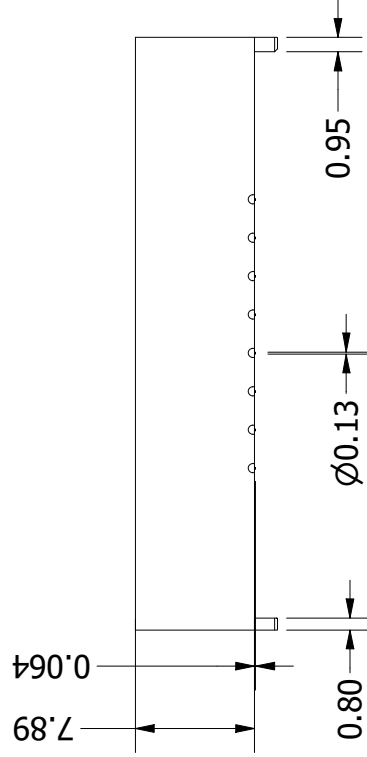
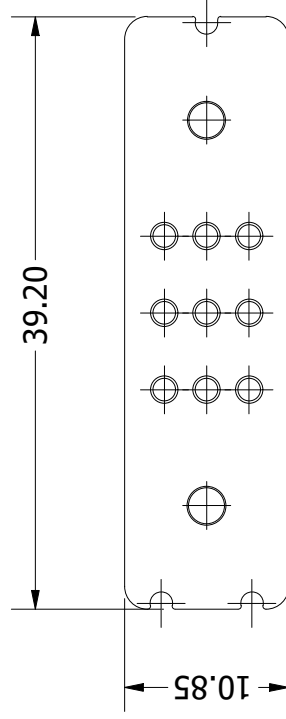
Scale: 2:1

CAD Drawing

MLBMC-SMPXBMVSB28HF00



MLBMC-AK-SMPXBMVSB28HF00-X



Recommended Torque: 7.5 cN.m

Title:

Board Mount Connector, 2x8 SMPX (M),
Vertical Mount, Smooth Bore.
Mounting Kit for 2x8 SMPX Vertical Male.

Notes:

1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.

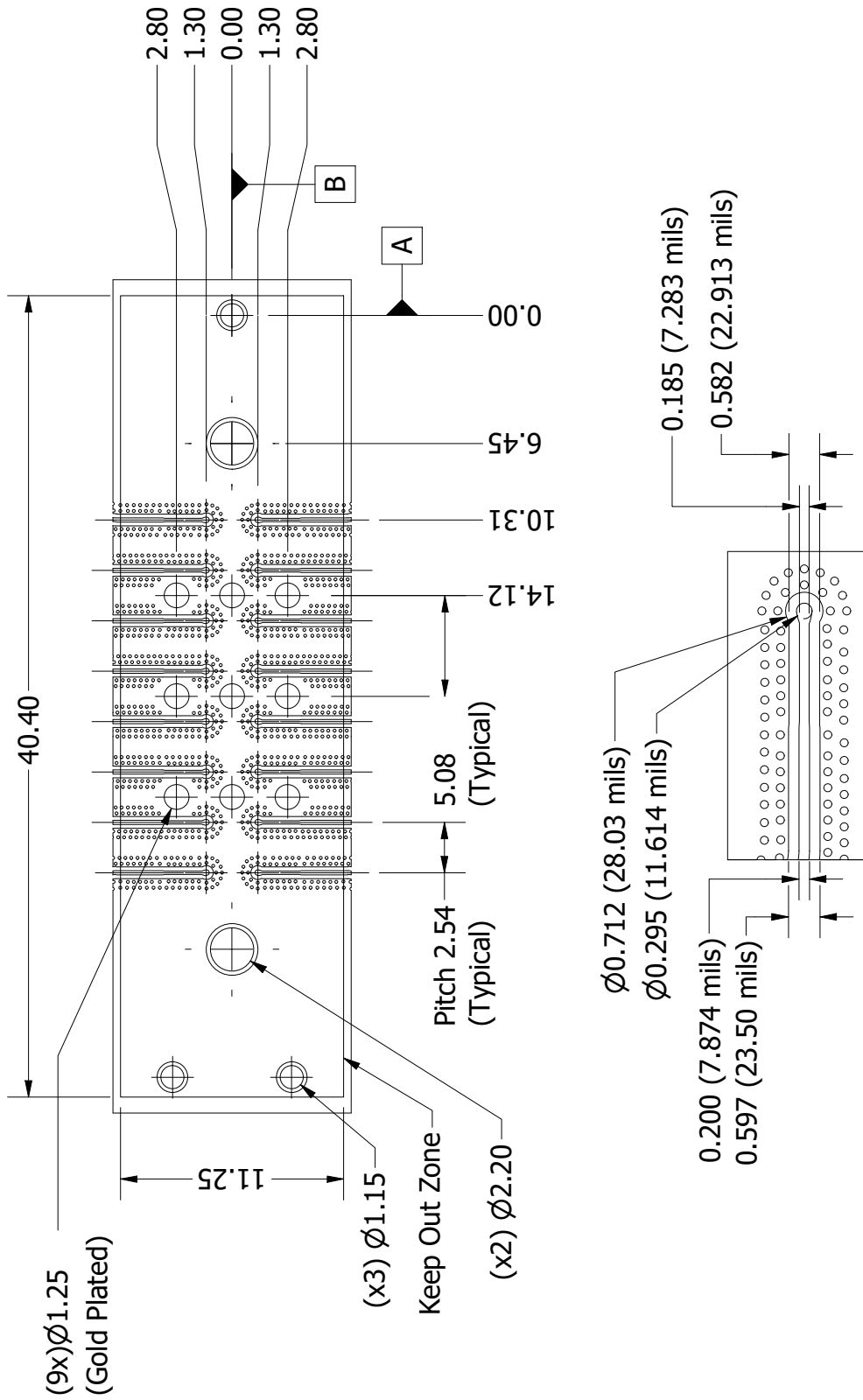
Rev: A

Scale: 2:1

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CAD Drawing



 www.multilaneinc.com sales@multilaneinc.com	Title: 2x8 SMPX Blind-Mate (M), Vertical Mount, Recommended Footprint.	Notes: 1. All dimensions are in millimetres unless otherwise specified. 2. These characteristics are typical and for reference. Scale: 3:1
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Explore the SMPX Ecosystem

SMPX Cable Assemblies



[Click Here](#) for Technical Datasheet



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