

Multiport SMPX Coax Solderless Board Mount Connectors

High-Density Edge 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

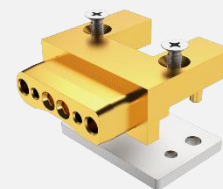
Environmental Specifications

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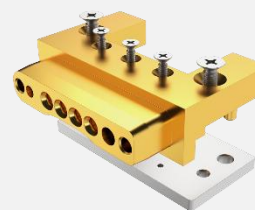
Interface Handling: Electrical performance assumes clean, dry, and undamaged connector interfaces

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

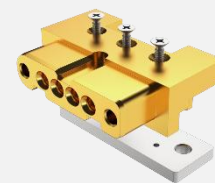
Inspect and clean interfaces before mating



1x2



1x4



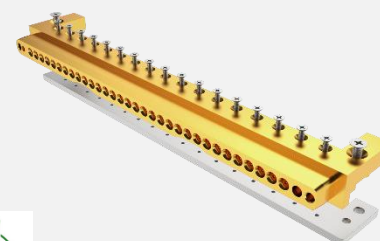
1x4 TRP



1x8



1x16



1x32



Multiport SMPX Coax Solderless Board Mount Connectors

High-Density Edge Launch, Blind-Mateable

How to Order:

Ports	Connector Part Number	Mounting Kit Part Number	Drawing	Notes
1x2	MLBMC-SMPXBMESB12	MLBMC-AK-SMPXBMESB12-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-SMPXBMESB14	MLBMC-AK-SMPXBMESB14-X	Page 5, 6	
1x4 TRP	MLBMC-SMPXBMESB14TRP	MLBMC-AK-SMPXBMESB14TRP-X	Page 7, 8	
1x8	MLBMC-SMPXBMESB18	MLBMC-AK-SMPXBMESB18-X	Page 9, 10	
1x16	MLBMC-SMPXBMESB116	MLBMC-AK-SMPXBMESB116-X	Page 11, 12	
1x32	MLBMC-SMPXBMESB132	MLBMC-AK-SMPXBMESB132-X	Page 13, 14	

PCB Thickness Indicator for Mounting Kit (X):

X	PCB Thickness
1	$1 \text{ mm} \leq t \leq 1.7 \text{ mm}$
2	$1.7 \text{ mm} < t \leq 2.7 \text{ mm}$
3	$2.7 \text{ mm} < t \leq 3.7 \text{ mm}$
4	$3.7 \text{ mm} < t \leq 4.7 \text{ mm}$
5	$4.7 \text{ mm} < t \leq 5.7 \text{ mm}$
6	$5.7 \text{ mm} < t \leq 6.7 \text{ mm}$
7	$6.7 \text{ mm} < t \leq 7.7 \text{ mm}$
8	$7.7 \text{ mm} < t \leq 8.7 \text{ mm}$
9	$8.7 \text{ mm} < t \leq 9.7 \text{ mm}$

Example:

PN: MLBMC-SMPXBMESB18

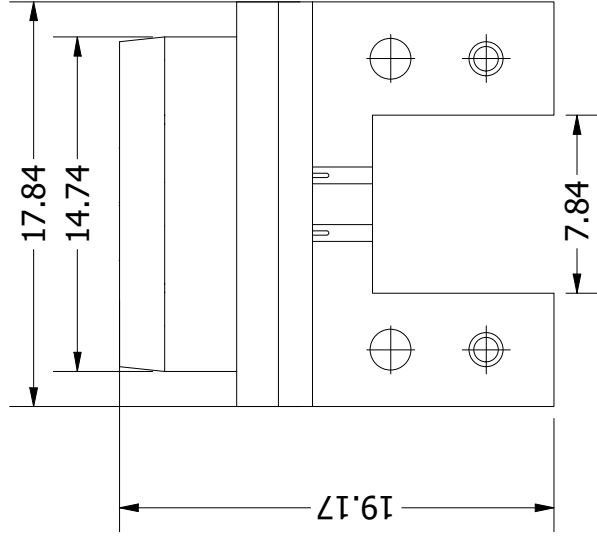
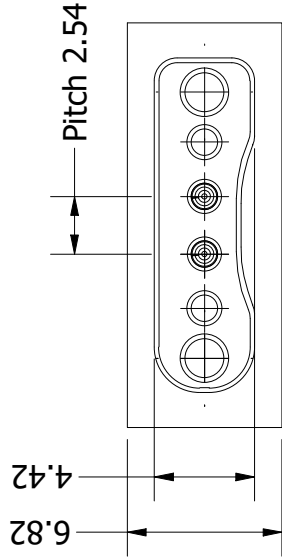
Description: Solderless Board Mount Connector, 1x8 SMPX (M) Edge Launch, Smooth Bore

PN: MLBMC-AK-SMPXBMESB18-2

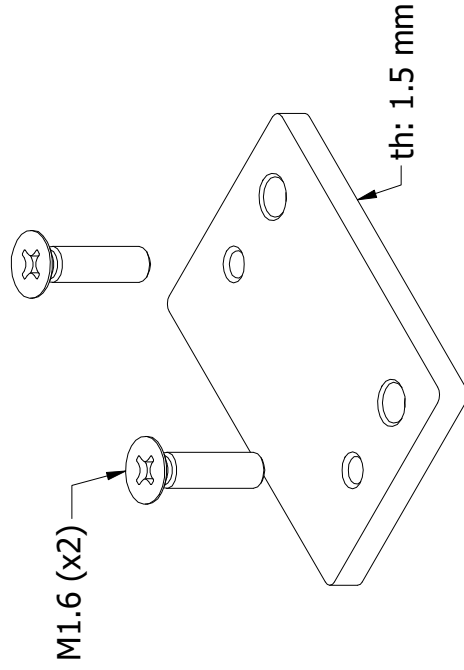
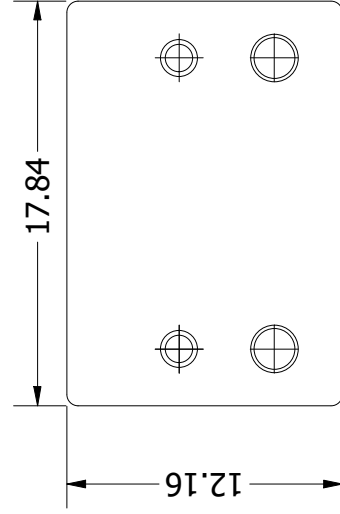
Description: Mounting Kit for 1x8 SMPX (M) Edge Launch (for 2 mm PCB thickness)

CAD Drawing

MLBMC-SMPXBMESB12



MLBMC-AK-SMPXBMESB12-X



Recommended Torque: 7.5 cN.m

Title:

Board Mount Connector, 1x2 SMPX (M),
Edge Launch, Smooth Bore.
Mounting Kit for 1x2 SMPX Edge Launch.

Notes:

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

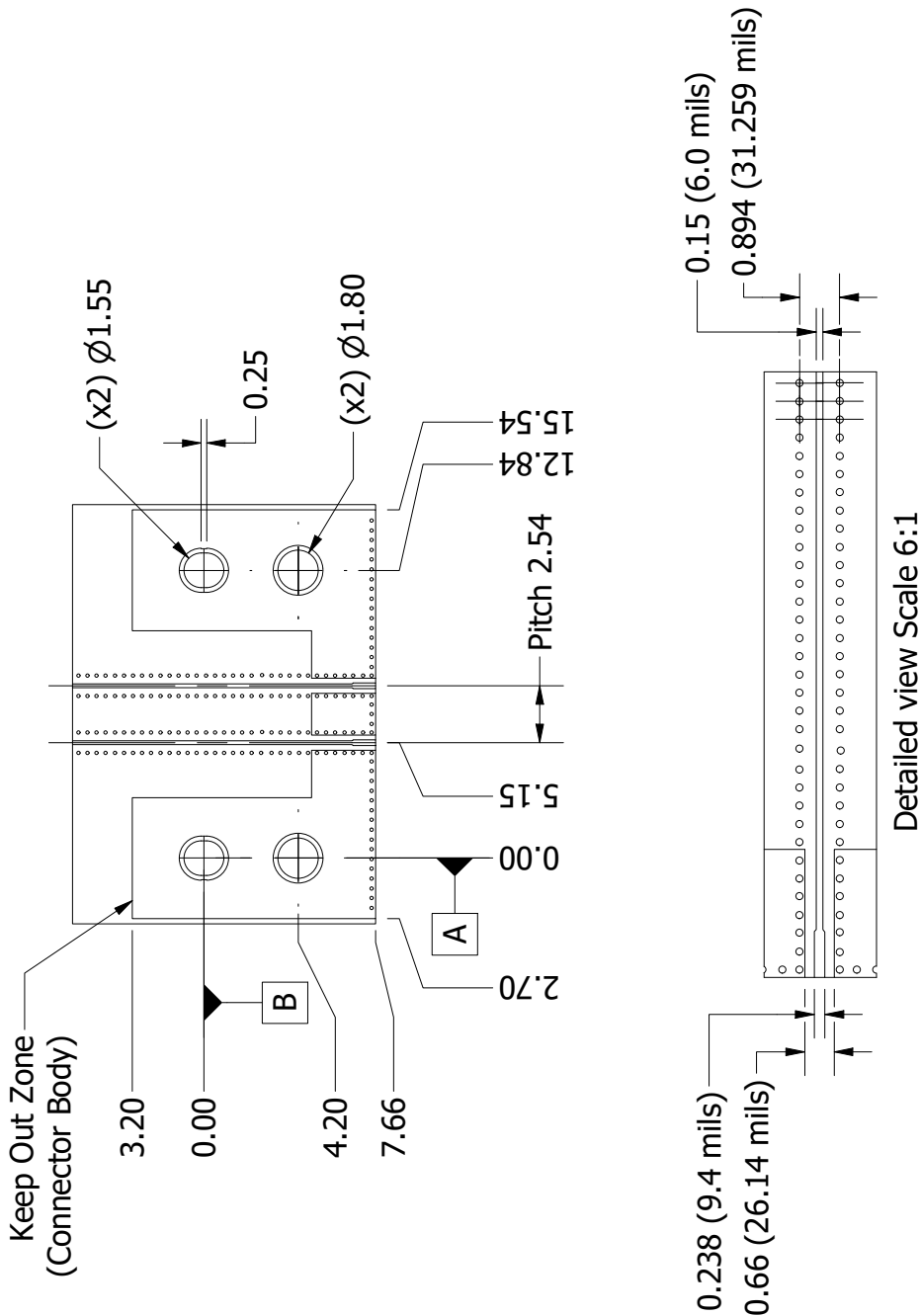
Rev: A

Scale: 3:1

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CAD Drawing



Title:

1x2 SMPX Blind-Mate (M), Edge Launch,
Recommended Footprint.

Notes:

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



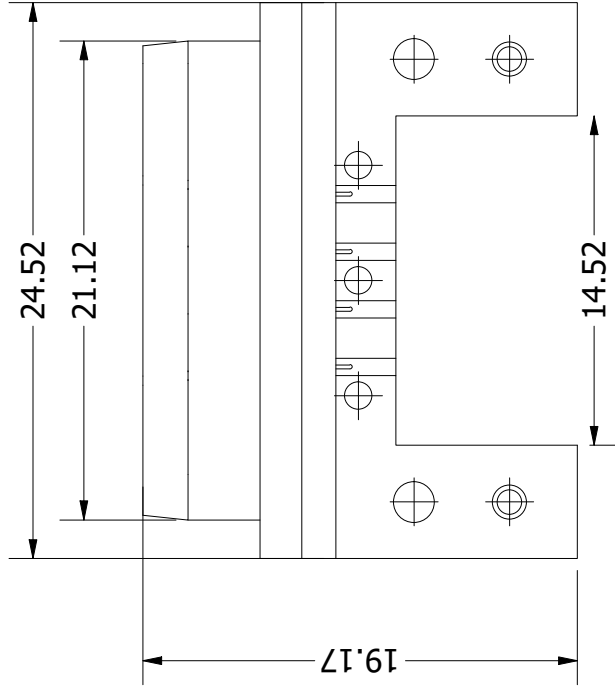
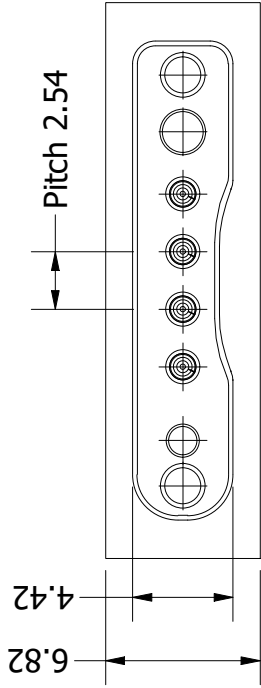
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Rev: B

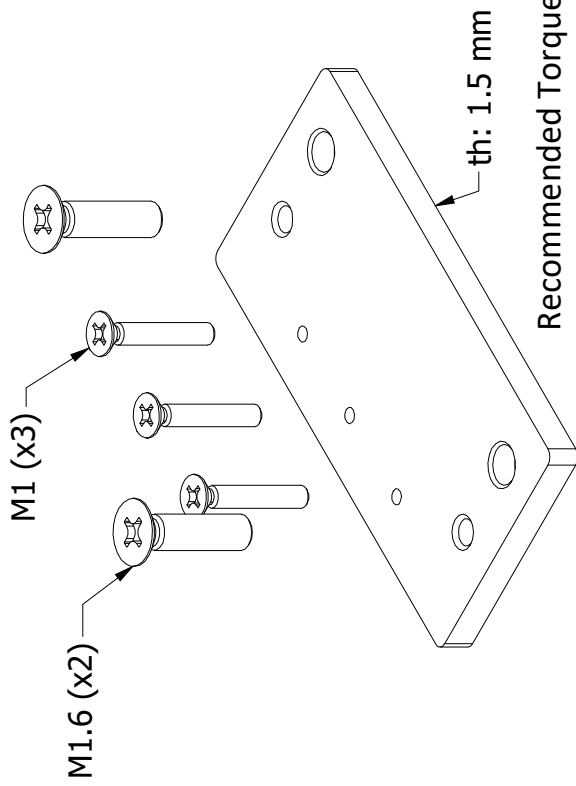
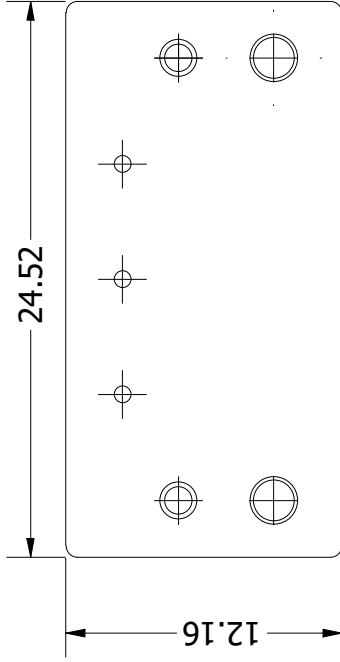
Scale: 3:1

CAD Drawing

MLBMC-SMPXBMESB14



MLBMC-AK-SMPXBMESB14-X



Recommended Torque: 7.5 cN.m

Title:

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

Notes:

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

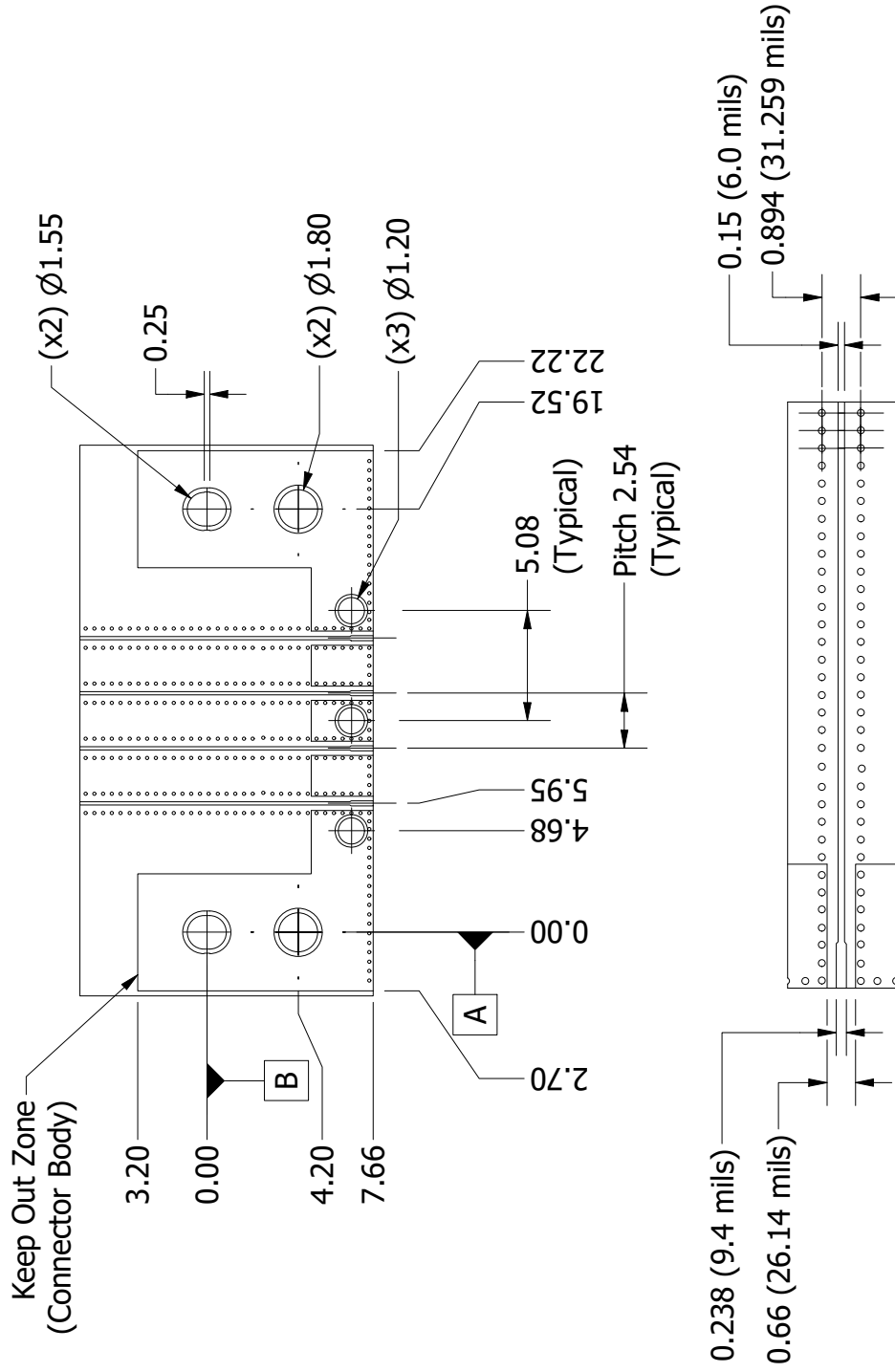
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Scale: 3:1

CAD Drawing



Title:

1x4 SMPX Blind-Mate (M), Edge Launch,
Recommended Footprint.

Notes:

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

Rev: B

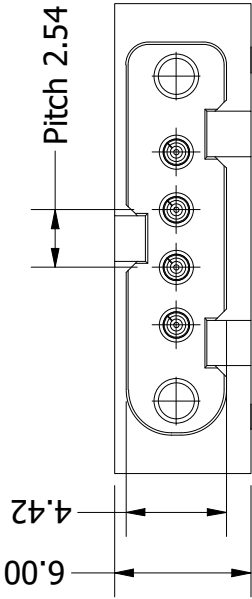
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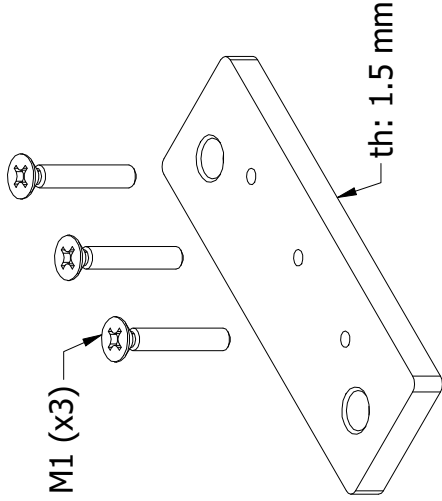
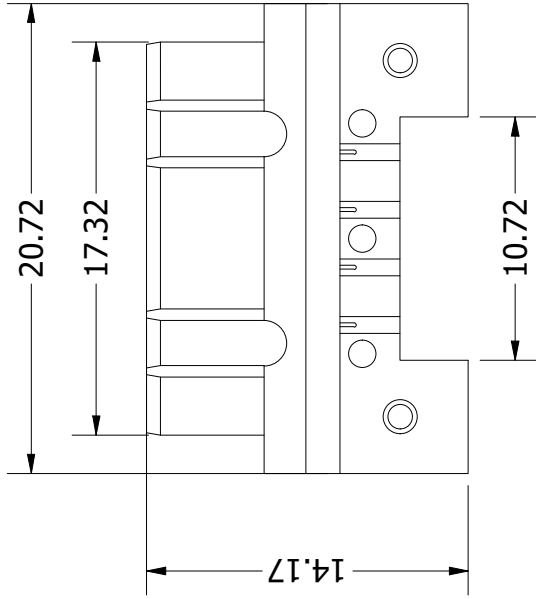
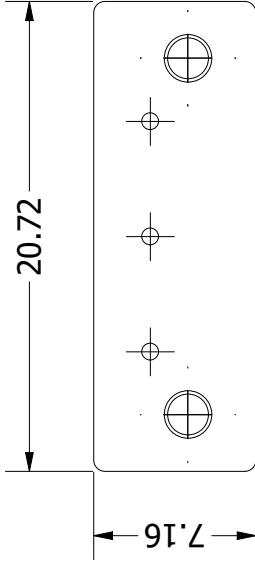
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CAD Drawing

MLBMC-SMPXBMESB14TRP



MLBMC-AK-SMPXBMESB14TRP-X



Recommended Torque: 7.5 cN.m

Title:

Board Mount Connector, 1x4 SMPX (M)
TRP, Edge Launch, Smooth Bore.
Mounting Kit for 1x4 SMPX TRP Edge
Launch.

Notes:

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

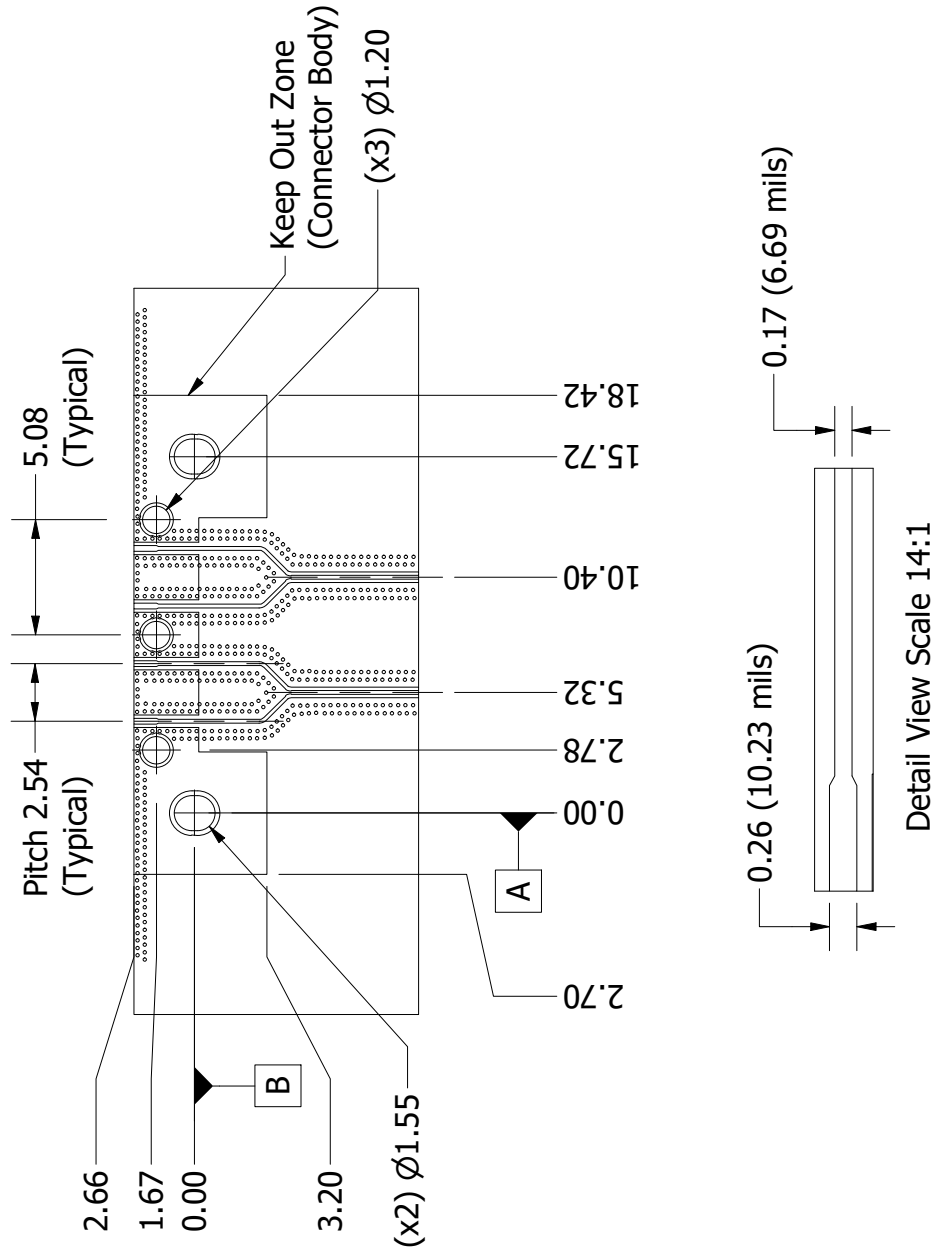
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Rev: A

Scale: 3:1

CAD Drawing



Title:

1x4 SMPX Blind-Mate (M) TRP, Edge Launch, Recommended Footprint.

Notes:

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

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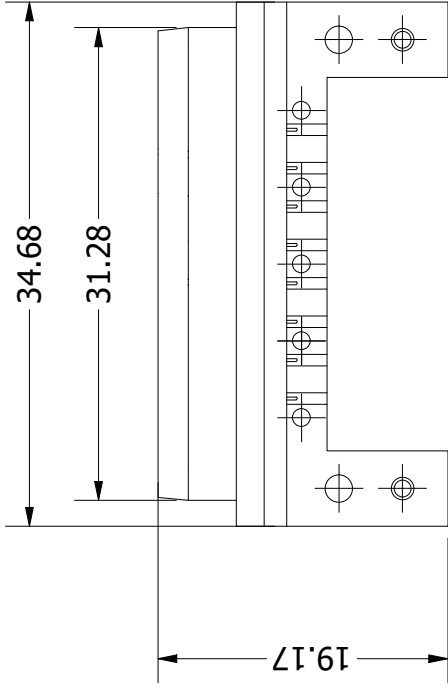
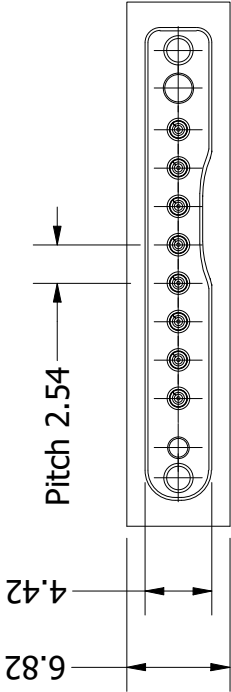
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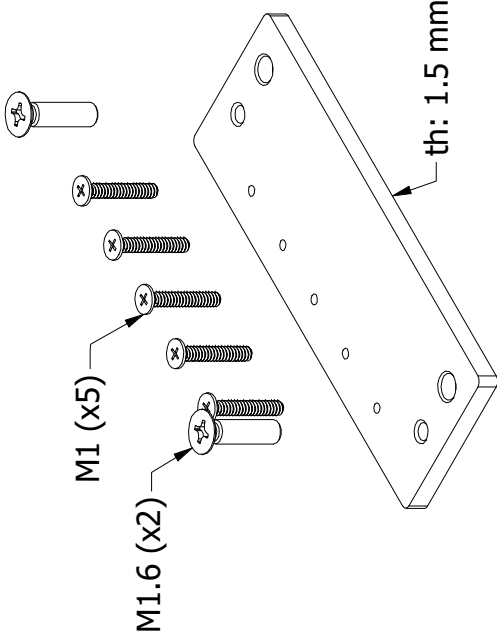
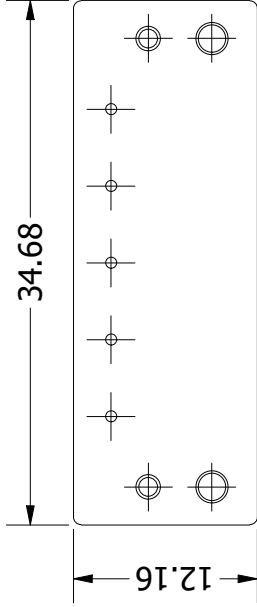
Scale: 3:1

CAD Drawing

MLBMC-SMPXBMESB18



MLBMC-AK-SMPXBMESB18-X



Recommended Torque: 7.5 cN.m

Title:

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

Notes:

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

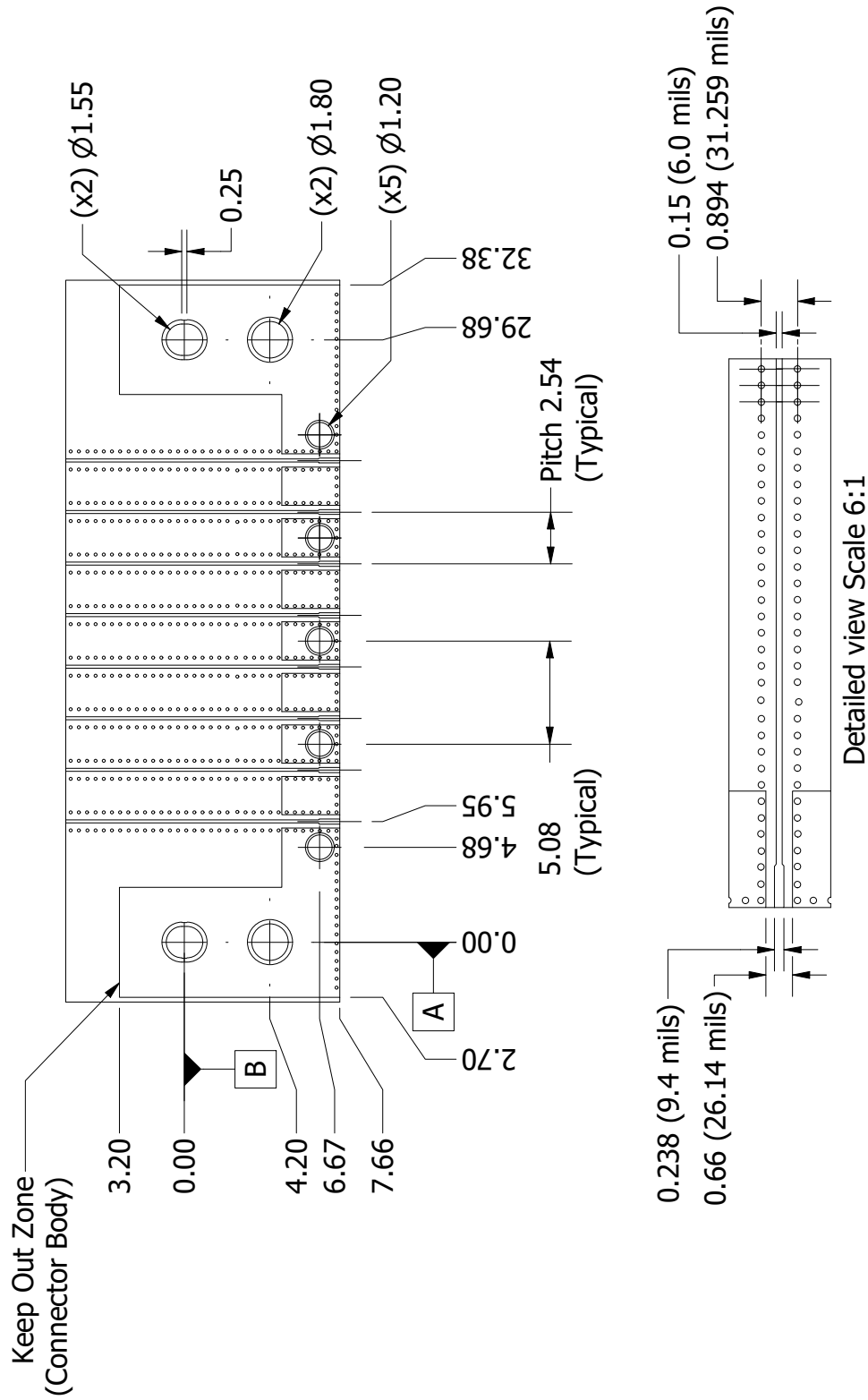
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Rev: A

Scale: 2:1

CAD Drawing



Title:

1x8 SMPX Blind-Mate (M), Edge Launch,
Recommended Footprint.

Notes:

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

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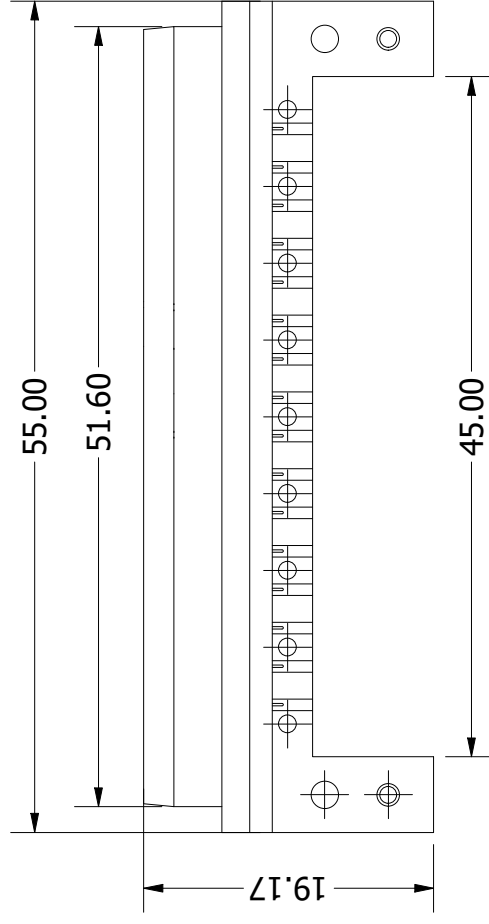
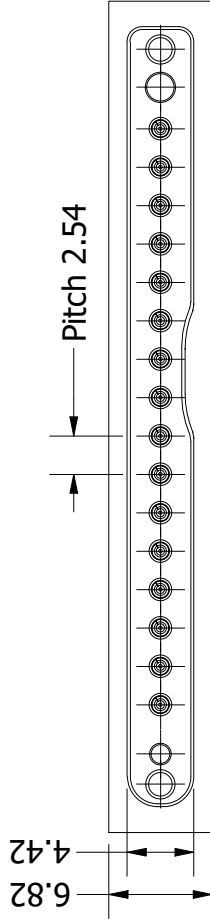
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Rev: B

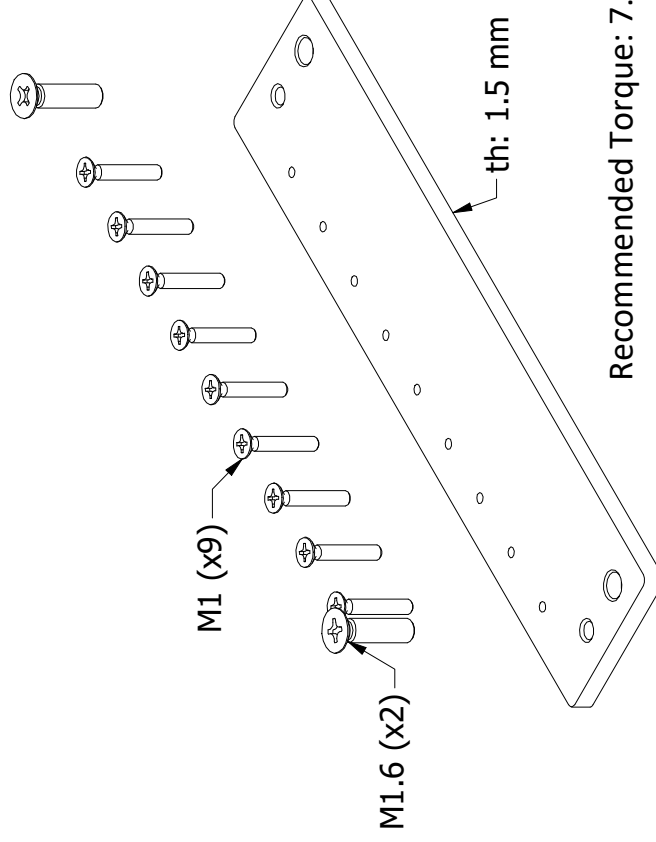
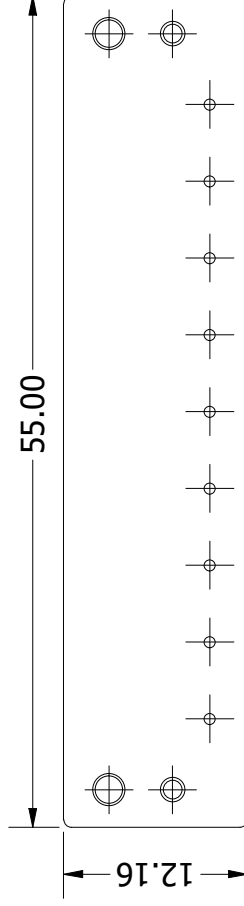
Scale: 3:1

CAD Drawing

MLBMC-SMPXBMESB116



MLBMC-AK-SMPXBMESB116-X



Title:

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

Notes:

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

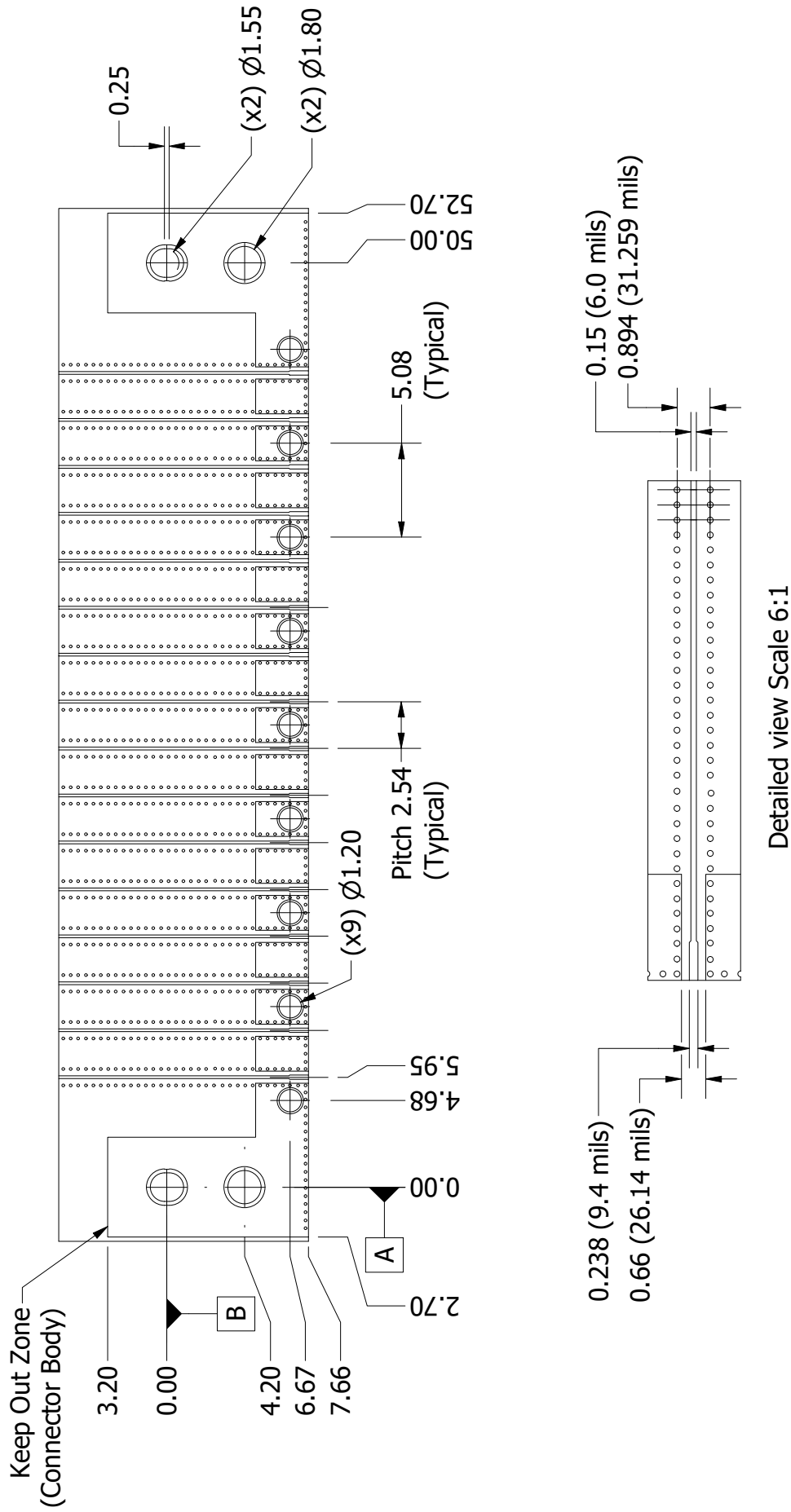
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Rev: A

Scale: 2:1

CAD Drawing



Title:



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Notes:

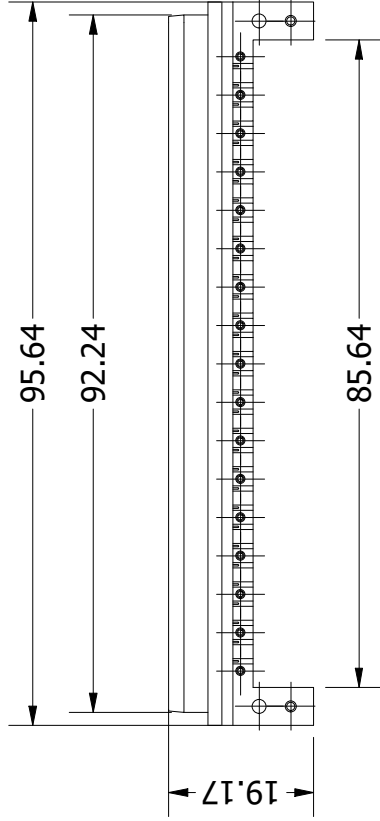
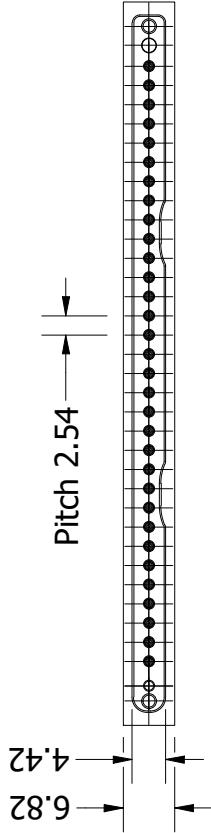
1. All dimensions are in millimetres unless otherwise specified.
2. These characteristics are typical and for reference.

Rev: B

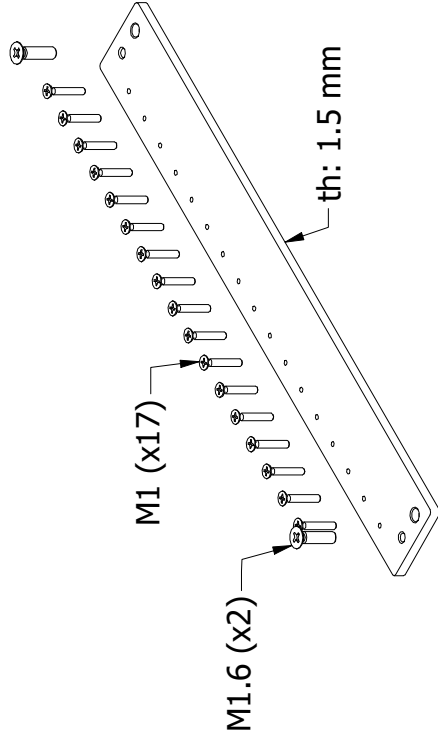
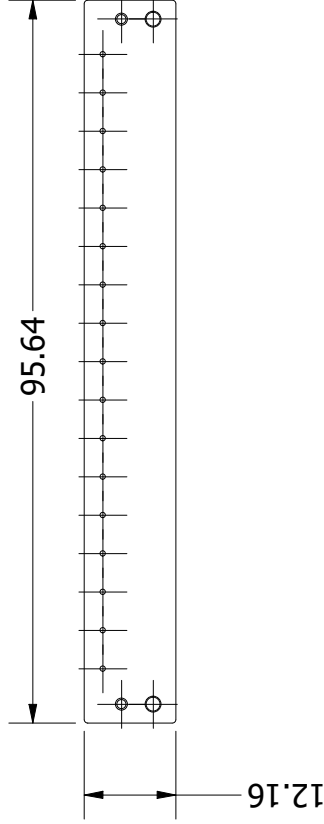
Scale: 3:1

CAD Drawing

MLBMC-SMPXBMESB132



MLBMC-AK-SMPXBMESB132-X



Recommended Torque: 7.5 cN.m

Title:

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

Notes:

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

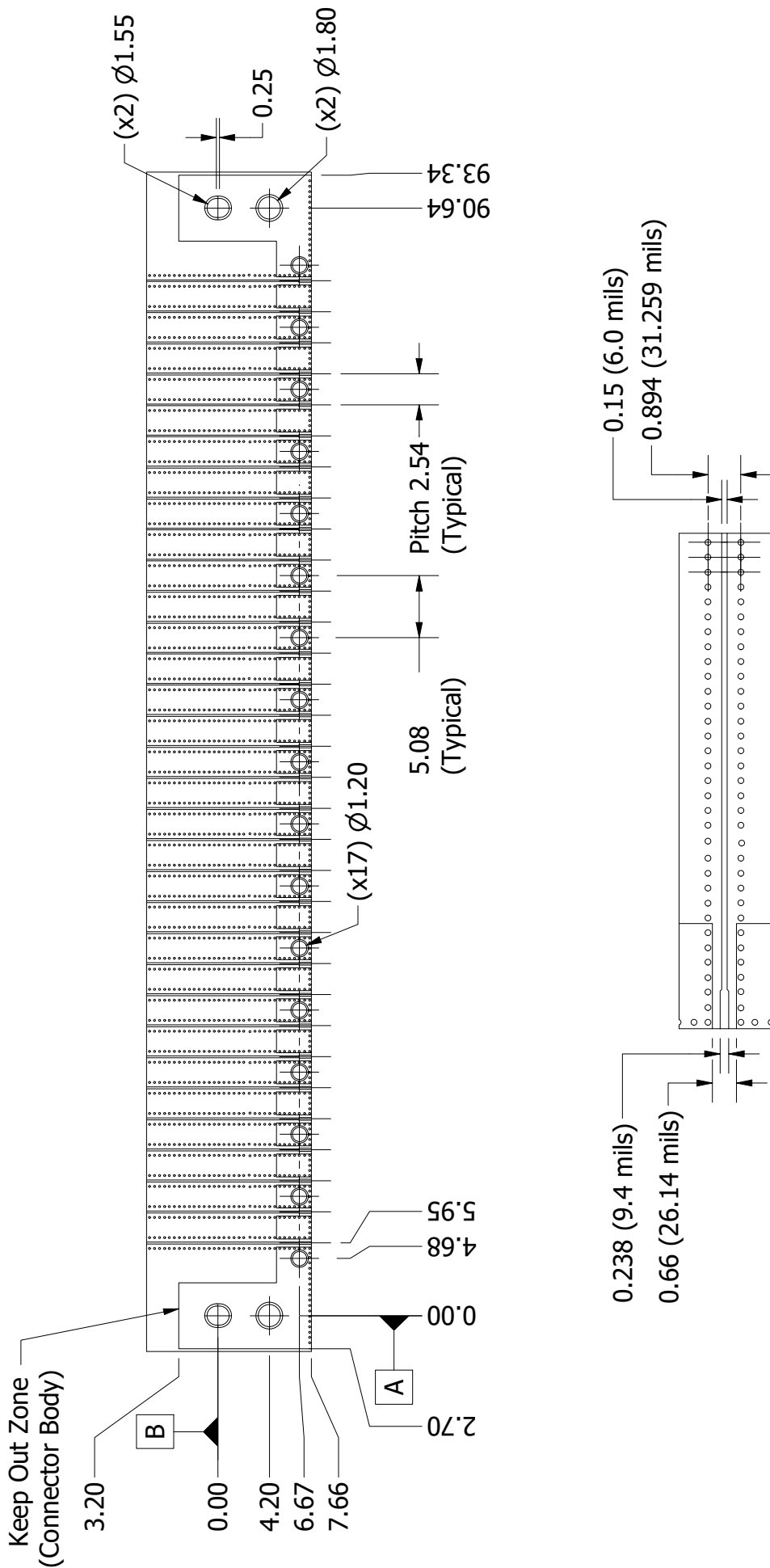
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Rev: A

Scale: 1:1

CAD Drawing



Title:

1x32 SMPX Blind-Mate (M), Edge Launch,
Recommended Footprint.

Notes:

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

Rev: B

Scale: 2:1

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fae@multilaneinc.com

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