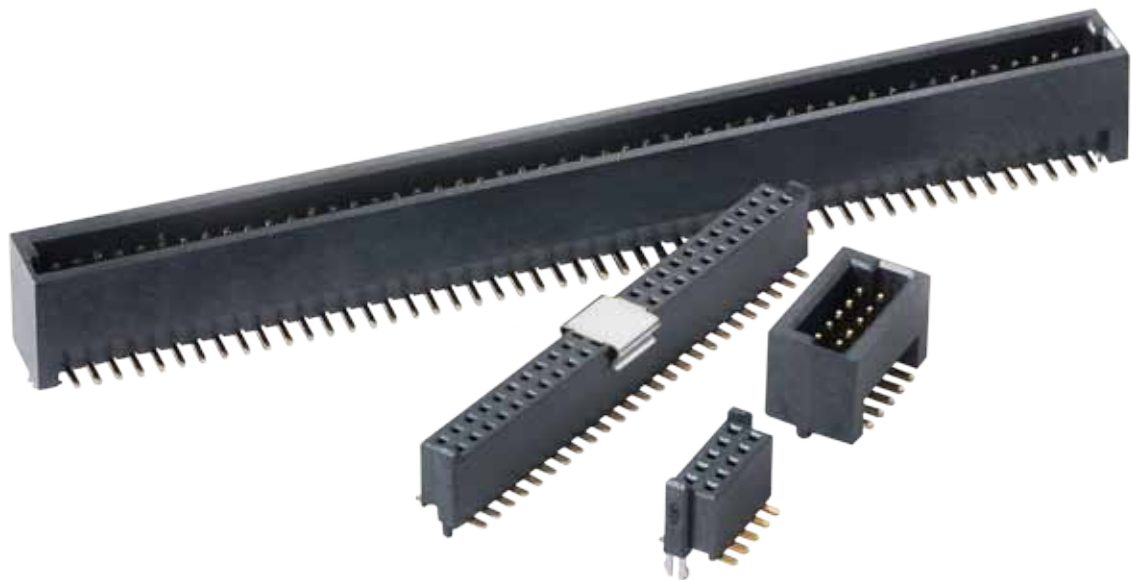


MiniMez

1.27 mm Board-to-Board Connectors



MiniMez - 1.27 mm Board-to-Board Connectors

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MiniMez - 1.27 mm Board-to-Board Connectors

BOARD-TO-BOARD CONNECTORS

GENERAL



MiniMez:
Connectors for
board-to-board
connections in all
applications

The MiniMez product family is a comprehensive solution that is designed for board-to-board connections in all applications. It is especially suitable for use in highly demanding systems that require reliability and robust connections. It is well suited for telecommunications and data-transmission devices.

With 4 different heights of male connectors and 2 different heights of female connectors, the MiniMez connector system provides stacking heights from 6.5 mm to 20 mm. The uniquely designed blindmate features with fully shrouded male connectors and robust thick side walls ensure polarized blindmating without worry of housing wall breakage.

The 2 row MiniMez connectors could be used in a wide application temperature range (-55 °C to +125 °C). Engineer can select between two termination options depending on the application: SMT for maximum PCB real estate usage or DIP solder for extra mechanical strain relief. SMT version female connector with 12.6 mm height comes with SMT brackets, whereas PCB

locking clip option is available for others, to enhance PCB retention force. In addition, SMT termination coplanarity is 100% guaranteed, less than 0.15 mm on all contacts.

The MiniMez connectors have black insulator housings for fast and reliable visual recognition. The connectors are delivered in tube packaging. Tape-and-reel packaging with pick and place cap for fully automatic SMT assembly is also available.

Features

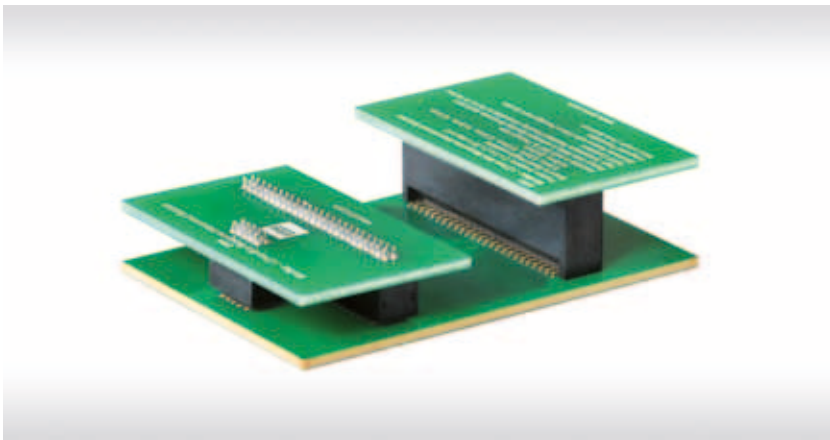
- For rugged applications (reinforced side walls)
- Polarized for alignment and secure mating
- Board-to-board height from 6.5 mm to 20 mm
- Wide range of pin count from 10 positions to 100 positions in step of 2
- To enhance PCB retention force for SMT terminations
 - SMT bracket: MiniMez Female 12.6 mm
 - PCB Locking clip: Other MiniMez connectors
- LCP insulator material (UL94 V-0)

MiniMez - 1.27 mm Board-to-Board Connectors

BOARD-TO-BOARD CONNECTORS

TECHNICAL DETAILS

Pitch	1.27 mm
No. of Pins	10 to 100 in step of 2
Current rating per contact	1.0 A @ 20 °C
Termination	DIP and SMT
Temperature Range	-55/125 °C
Variants	Vertical male connector, Vertical female connector



Due to the different connector heights, **variable board-to-board height** ranging from 6.5 mm to 20 mm can be realized

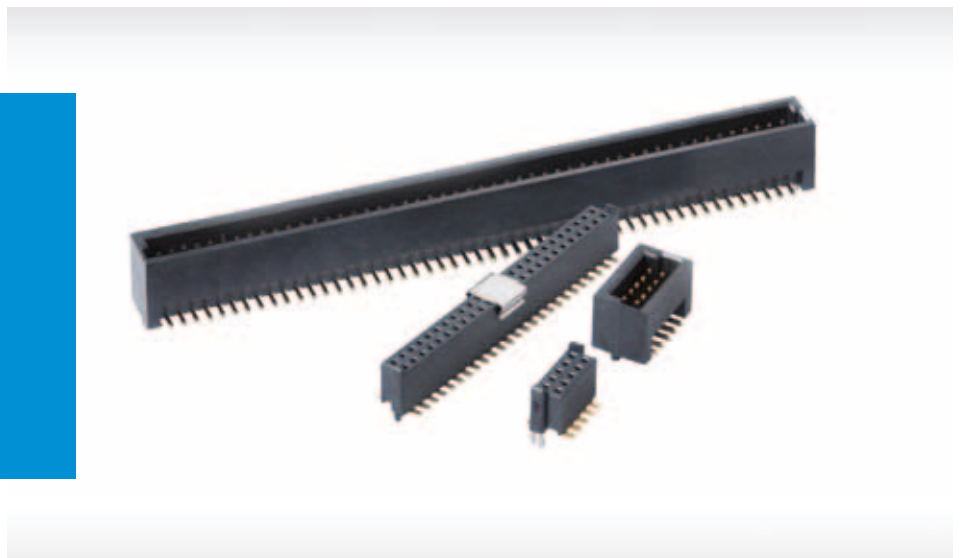
MiniMez - 1.27 mm Board-to-Board Connectors

FEATURES

CONFIGURATION

Vertical female
Vertical male

Stacked boards
(Mezzanine)



FULLY SHROUDED HOUSING



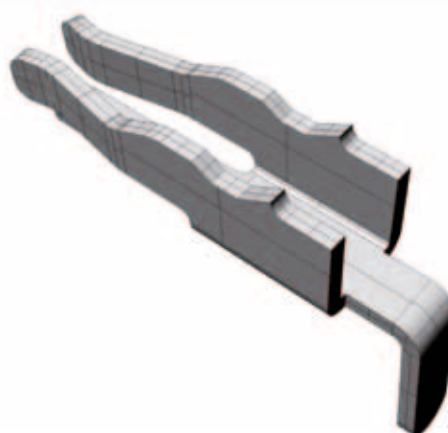
Fully shrouded housing for
robust application

MiniMez - 1.27 mm Board-to-Board Connectors

FEATURES

HIGH RELIABLE CONTACT DESIGN

Dual beam female contact for ultra-reliable connections



SPECIAL CLOSED CONTACT DESIGN



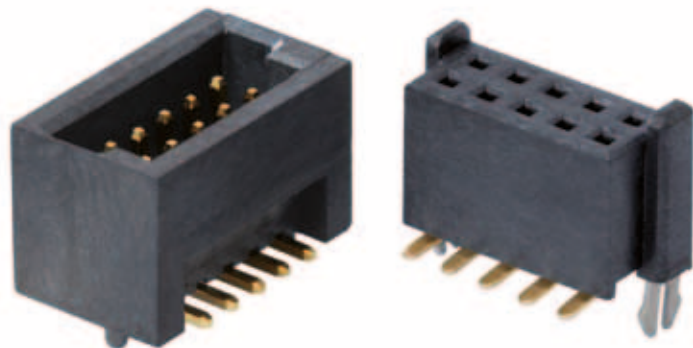
Special closed contact for DIP solder termination to eliminate solder flooding to contact

MiniMez - 1.27 mm Board-to-Board Connectors

FEATURES

POLARIZATION (MATING FACE)

Mating face polarization
prevents mismatching
and incorrect
connection



PRE-ALIGNMENT GUIDE



Pre-alignment guide for
better blindmate

MiniMez - 1.27 mm Board-to-Board Connectors

FEATURES

LOCATING PEGS

Geometrically heterogeneous locating pegs for precise positioning on the PCB

Enables best possible compensation of PCB holes for both positive and negative tolerances



ROBUST SOLDER BRACKETS



Metal SMT brackets

for MiniMez 12.6 mm female connector provide outstanding PCB retention force

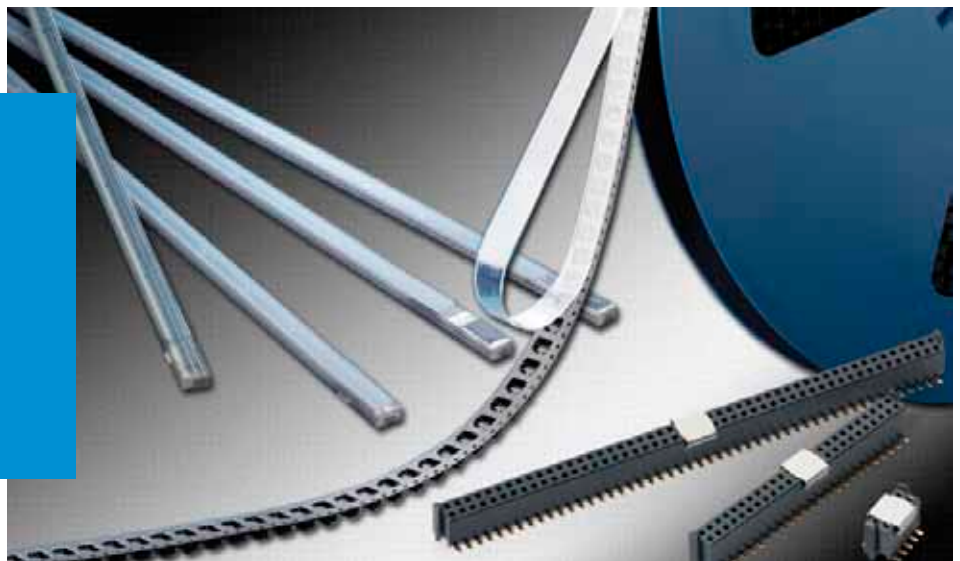
Absorb mechanical stress and are able to withstand high shock and vibration loads

MiniMez - 1.27 mm Board-to-Board Connectors

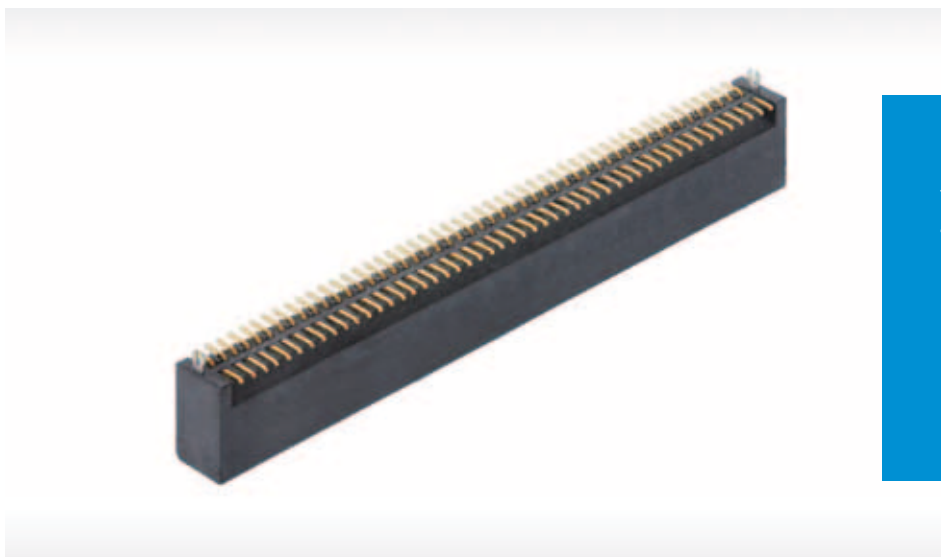
FEATURES

MULTIPLE PACKAGING OPTIONS

Tube, tube with cap, and tape and reel with cap packaging options suit different budgets and assembly needs



CONTROLLED SMT REFLOW SOLDERING PROCESS

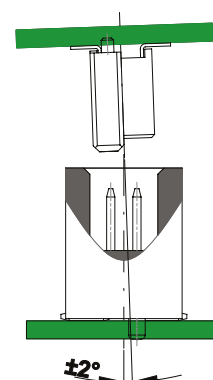
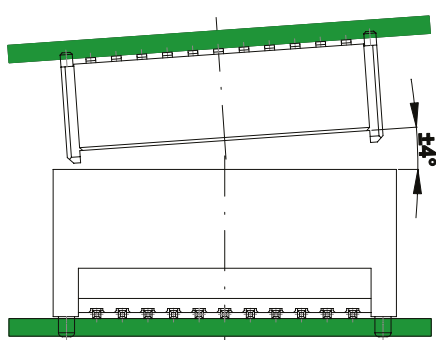


The **heat-resistant thermoplastic** insulation body and **precision coplanar contacts** permit a controlled SMT soldering process

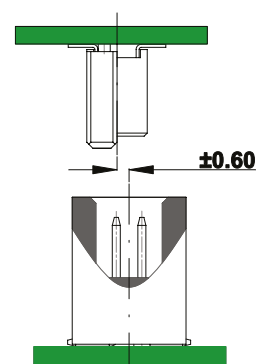
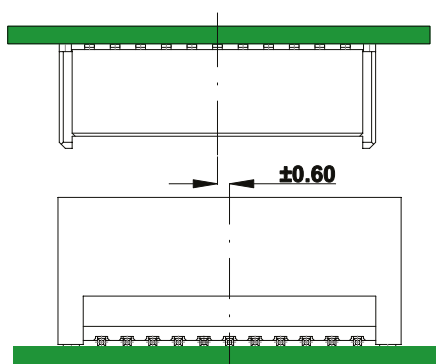
MiniMez - 1.27 mm Board-to-Board Connectors

MATING CONDITIONS

ALLOWED ANGULAR INCLINATION TOLERANCES FOR A SECURE SELF-CENTERING



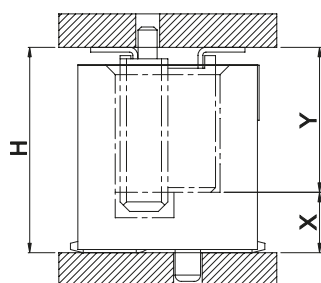
ALLOWED MISALIGNMENT TOLERANCES FOR A SECURE SELF-CENTERING



MiniMez - 1.27 mm Board-to-Board Connectors

BOARD-TO-BOARD HEIGHT

STACKED BOARDS / MEZZANINE



Board-to-Board Height, H*	Vertical Male Unmated Stacking Height, X	Vertical Female Unmated Stacking Height, Y
6.5 - 8.0 mm	1.9 mm	4.6 mm
8.0 - 9.5 mm	3.4 mm	4.6 mm
10.0 - 11.5 mm	5.4 mm	4.6 mm
12.0 - 13.5 mm	7.4 mm	4.6 mm
14.5 - 16.0 mm	1.9 mm	12.6 mm
16.0 - 17.5 mm	3.4 mm	12.6 mm
18.0 - 19.5 mm	5.4 mm	12.6 mm
20.0 - 21.5 mm	7.4 mm	12.6 mm

* Maximum board-to-board height is achieved by taking 1.5 mm wipe length into account

MiniMez - 1.27 mm Board-to-Board Connectors

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TECHNICAL DATA

Description	Standard	Vertical Male Connector	Vertical Female Connector
Climate category	DIN EN 60068-1 test b	-55/125/56	
Temperature range		-55/125 °C	
Current rating per contact	IEC60512 test 5b	1.0 A @ 20 °C	
Air and creepage distance		0.4 mm	
Operating voltage	IEC 60664	The permissible operating voltages depend on the customer application and on the applicable or specified safety requirements. Insulation coordination according to IEC 60664-1 has to be regarded for the complete electrical device. Therefore, the maximum creepage and clearance distances of the mated connectors are specified for consideration as a part of the whole current path. In practice, reductions in creepage or clearance distances may occur due to the conductive pattern of the printed board or the wiring used, and have to be taken into account separately. As a result the creepage and clearance distances for the application may be reduced compared to those of the connector.	
Dielectric strength	IEC 60512 test 4a	contact – contact 500 V _{rms}	
Contact resistance	IEC 60512 test 2a	< 20 mΩ	
Insulation resistance	IEC 60512 test 3a	> 1000 MΩ	
Vibration, sine	IEC 60512 test 6d	10 – 2000 Hz 20 g	
Contact disturbance (during vibration test)	IEC 60512 test 2e	< 1 μs	
Shock halfsine	IEC 60512 test 6c	50 g 11 ms	
Contact disturbance (during vibration test)	IEC 60512 test 2e	< 1 μs	
Mechanical operation (Mating cycle)	IEC 60512 test 9a	> 100 mating cycles for 10 μ" Au plating > 10 mating cycles for 0.8 μ" Au plating	

MiniMez - 1.27 mm Board-to-Board Connectors

ELECTRICAL AND MECHANICAL CHARACTERISTICS

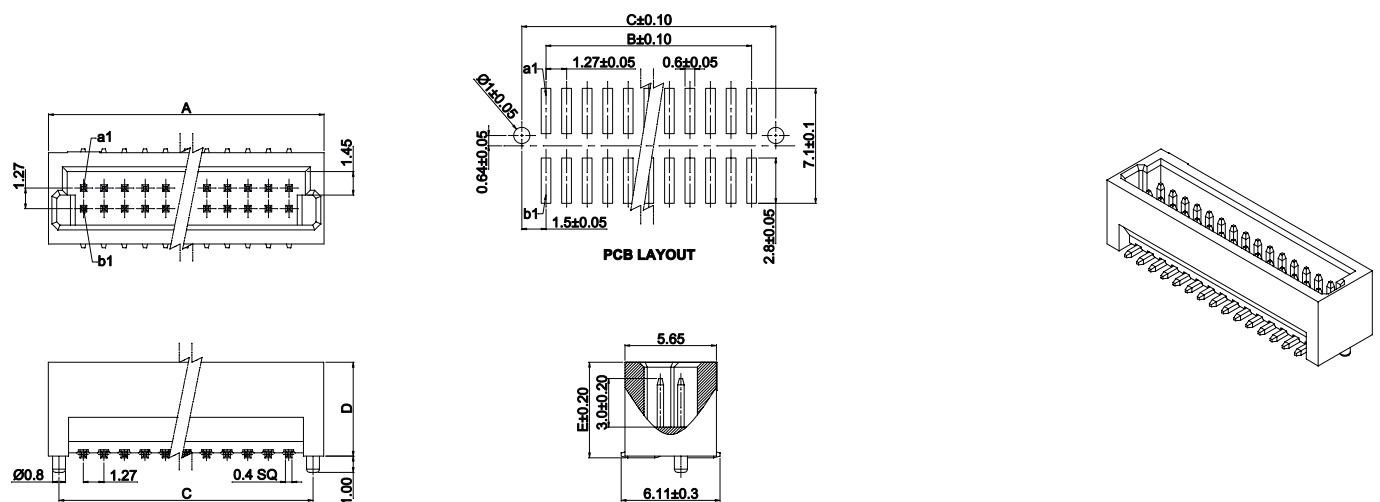
Description	Standard	Vertical Male Connector	Vertical Female Connector
Insertion and withdrawal force	IEC 60512 test 13b	2 N average	
Gauge retention force	IEC 60512 test 16e	0.1 N min.	
Process Conditions			
Solder temperature max.	IEC 60068-2-20		
Hand soldering temperature max.		3.5 s at 350 °C	
DIP soldering temperature max.		10 s at 260 °C	
Reflow soldering temperature max.	JEDEC J-STD-020	20 - 40 s at 260 °C	
Coplanarity		< 0.15 mm	
Housing Material			
Plastic material		LCP	
CT Value	IEC 112	CTI 175	
UL flame rating		UL 94 V-0	
Contact Material			
Base material		Cu alloy	
Mating area		Au plating over Ni underplating	
Termination area		Au plating over Ni underplating * Matte Sn over Ni for 12.6 mm female connector	
PCB Clip and SMT Bracket Materials			
Base material		Cu Alloy	
Plating		Sn over Ni	
Product Approval			
UL		E472031	

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

DIMENSIONAL DRAWINGS

UNMATED STACKING HEIGHT 1.9 mm / 3.4 mm / 5.4 mm / 7.4 mm *



No. of Positions	A	B	C
10	9.41	5.08	8.08
20	15.76	11.43	14.43
30	22.11	17.78	20.78
40	28.46	24.13	27.13
50	34.81	30.48	33.48
60	41.16	36.83	39.83
70	47.51	43.18	46.18
80	53.86	49.53	52.53
100	66.56	62.23	65.23

Unmated Stacking Height*	D	E
1.9	5.8	5.9
3.4	7.3	7.4
5.4	9.3	9.4
7.4	11.3	11.4

* Refer to page 11 for board-to-board height that can be realized

All dimensions in mm

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

ORDERING INFORMATION

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
10	1.9	10 min.	Tube	109001
10	1.9	10 min.	Tube with Cap	109019
10	1.9	10 min.	Tap and Reel with Cap	109037
10	1.9	100 min.	Tube	109010
10	1.9	100 min.	Tube with Cap	109028
10	1.9	100 min.	Tap and Reel with Cap	109046
20	1.9	10 min.	Tube	109002
20	1.9	10 min.	Tube with Cap	109020
20	1.9	10 min.	Tap and Reel with Cap	109038
20	1.9	100 min.	Tube	109011
20	1.9	100 min.	Tube with Cap	109029
20	1.9	100 min.	Tap and Reel with Cap	109047
30	1.9	10 min.	Tube	109003
30	1.9	10 min.	Tube with Cap	109021
30	1.9	10 min.	Tap and Reel with Cap	109039
30	1.9	100 min.	Tube	109012
30	1.9	100 min.	Tube with Cap	109030
30	1.9	100 min.	Tap and Reel with Cap	109048

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
40	1.9	10 min.	Tube	109004
40	1.9	10 min.	Tube with Cap	109022
40	1.9	10 min.	Tap and Reel with Cap	109040
40	1.9	100 min.	Tube	109013
40	1.9	100 min.	Tube with Cap	109031
40	1.9	100 min.	Tap and Reel with Cap	109049
50	1.9	10 min.	Tube	109005
50	1.9	10 min.	Tube with Cap	109023
50	1.9	10 min.	Tap and Reel with Cap	109041
50	1.9	100 min.	Tube	109014
50	1.9	100 min.	Tube with Cap	109032
50	1.9	100 min.	Tap and Reel with Cap	109050
60	1.9	10 min.	Tube	109006
60	1.9	10 min.	Tube with Cap	109024
60	1.9	10 min.	Tap and Reel with Cap	109042
60	1.9	100 min.	Tube	109015
60	1.9	100 min.	Tube with Cap	109033
60	1.9	100 min.	Tap and Reel with Cap	109051
70	1.9	10 min.	Tube	109007
70	1.9	10 min.	Tube with Cap	109025

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
70	1.9	10 min.	Tap and Reel with Cap	109043
70	1.9	100 min.	Tube	109016
70	1.9	100 min.	Tube with Cap	109034
70	1.9	100 min.	Tap and Reel with Cap	109052
80	1.9	10 min.	Tube	109008
80	1.9	10 min.	Tube with Cap	109026
80	1.9	10 min.	Tap and Reel with Cap	109044
80	1.9	100 min.	Tube	109017
80	1.9	100 min.	Tube with Cap	109035
80	1.9	100 min.	Tap and Reel with Cap	109053
100	1.9	10 min.	Tube	109009
100	1.9	10 min.	Tube with Cap	109027
100	1.9	10 min.	Tap and Reel with Cap	109045
100	1.9	100 min.	Tube	109018
100	1.9	100 min.	Tube with Cap	109036
100	1.9	100 min.	Tap and Reel with Cap	109054
10	3.4	10 min.	Tube	109056
10	3.4	10 min.	Tube with Cap	109074
10	3.4	10 min.	Tap and Reel with Cap	109092
10	3.4	100 min.	Tube	109065

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
10	3.4	100 min.	Tube with Cap	109083
10	3.4	100 min.	Tap and Reel with Cap	109101
20	3.4	10 min.	Tube	109057
20	3.4	10 min.	Tube with Cap	109075
20	3.4	10 min.	Tap and Reel with Cap	109093
20	3.4	100 min.	Tube	109066
20	3.4	100 min.	Tube with Cap	109084
20	3.4	100 min.	Tap and Reel with Cap	109102
30	3.4	10 min.	Tube	109058
30	3.4	10 min.	Tube with Cap	109076
30	3.4	10 min.	Tap and Reel with Cap	109094
30	3.4	100 min.	Tube	109067
30	3.4	100 min.	Tube with Cap	109085
30	3.4	100 min.	Tap and Reel with Cap	109103
40	3.4	10 min.	Tube	109059
40	3.4	10 min.	Tube with Cap	109077
40	3.4	10 min.	Tap and Reel with Cap	109095
40	3.4	100 min.	Tube	109068
40	3.4	100 min.	Tube with Cap	109086
40	3.4	100 min.	Tap and Reel with Cap	109104

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
50	3.4	10 min.	Tube	109060
50	3.4	10 min.	Tube with Cap	109078
50	3.4	10 min.	Tap and Reel with Cap	109096
50	3.4	100 min.	Tube	109069
50	3.4	100 min.	Tube with Cap	109087
50	3.4	100 min.	Tap and Reel with Cap	109105
60	3.4	10 min.	Tube	109061
60	3.4	10 min.	Tube with Cap	109079
60	3.4	10 min.	Tap and Reel with Cap	109097
60	3.4	100 min.	Tube	109070
60	3.4	100 min.	Tube with Cap	109088
60	3.4	100 min.	Tap and Reel with Cap	109106
70	3.4	10 min.	Tube	109062
70	3.4	10 min.	Tube with Cap	109080
70	3.4	10 min.	Tap and Reel with Cap	109098
70	3.4	100 min.	Tube	109071
70	3.4	100 min.	Tube with Cap	109089
70	3.4	100 min.	Tap and Reel with Cap	109107
80	3.4	10 min.	Tube	109063
80	3.4	10 min.	Tube with Cap	109081

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
80	3.4	10 min.	Tap and Reel with Cap	109099
80	3.4	100 min.	Tube	109072
80	3.4	100 min.	Tube with Cap	109090
80	3.4	100 min.	Tap and Reel with Cap	109108
100	3.4	10 min.	Tube	109064
100	3.4	10 min.	Tube with Cap	109082
100	3.4	10 min.	Tap and Reel with Cap	109100
100	3.4	100 min.	Tube	109073
100	3.4	100 min.	Tube with Cap	109091
100	3.4	100 min.	Tap and Reel with Cap	109109
10	5.4	10 min.	Tube	109111
10	5.4	10 min.	Tube with Cap	109129
10	5.4	10 min.	Tap and Reel with Cap	109147
10	5.4	100 min.	Tube	109120
10	5.4	100 min.	Tube with Cap	109138
10	5.4	100 min.	Tap and Reel with Cap	109156
20	5.4	10 min.	Tube	109112
20	5.4	10 min.	Tube with Cap	109130
20	5.4	10 min.	Tap and Reel with Cap	109148
20	5.4	100 min.	Tube	109121

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
20	5.4	100 min.	Tube with Cap	109139
20	5.4	100 min.	Tap and Reel with Cap	109157
30	5.4	10 min.	Tube	109113
30	5.4	10 min.	Tube with Cap	109131
30	5.4	10 min.	Tap and Reel with Cap	109149
30	5.4	100 min.	Tube	109122
30	5.4	100 min.	Tube with Cap	109140
30	5.4	100 min.	Tap and Reel with Cap	109158
40	5.4	10 min.	Tube	109114
40	5.4	10 min.	Tube with Cap	109132
40	5.4	10 min.	Tap and Reel with Cap	109150
40	5.4	100 min.	Tube	109123
40	5.4	100 min.	Tube with Cap	109141
40	5.4	100 min.	Tap and Reel with Cap	109159
50	5.4	10 min.	Tube	109115
50	5.4	10 min.	Tube with Cap	109133
50	5.4	10 min.	Tap and Reel with Cap	109151
50	5.4	100 min.	Tube	109124
50	5.4	100 min.	Tube with Cap	109142
50	5.4	100 min.	Tap and Reel with Cap	109160

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
60	5.4	10 min.	Tube	109116
60	5.4	10 min.	Tube with Cap	109134
60	5.4	10 min.	Tap and Reel with Cap	109152
60	5.4	100 min.	Tube	109125
60	5.4	100 min.	Tube with Cap	109143
60	5.4	100 min.	Tap and Reel with Cap	109161
70	5.4	10 min.	Tube	109117
70	5.4	10 min.	Tube with Cap	109135
70	5.4	10 min.	Tap and Reel with Cap	109153
70	5.4	100 min.	Tube	109126
70	5.4	100 min.	Tube with Cap	109144
70	5.4	100 min.	Tap and Reel with Cap	109162
80	5.4	10 min.	Tube	109118
80	5.4	10 min.	Tube with Cap	109136
80	5.4	10 min.	Tap and Reel with Cap	109154
80	5.4	100 min.	Tube	109127
80	5.4	100 min.	Tube with Cap	109145
80	5.4	100 min.	Tap and Reel with Cap	109163
100	5.4	10 min.	Tube	109119
100	5.4	10 min.	Tube with Cap	109137

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
100	5.4	10 min.	Tap and Reel with Cap	109155
100	5.4	100 min.	Tube	109128
100	5.4	100 min.	Tube with Cap	109146
100	5.4	100 min.	Tap and Reel with Cap	109164
10	7.4	10 min.	Tube	109166
10	7.4	10 min.	Tube with Cap	109184
10	7.4	10 min.	Tap and Reel with Cap	109202
10	7.4	100 min.	Tube	109175
10	7.4	100 min.	Tube with Cap	109193
10	7.4	100 min.	Tap and Reel with Cap	109211
20	7.4	10 min.	Tube	109167
20	7.4	10 min.	Tube with Cap	109185
20	7.4	10 min.	Tap and Reel with Cap	109203
20	7.4	100 min.	Tube	109176
20	7.4	100 min.	Tube with Cap	109194
20	7.4	100 min.	Tap and Reel with Cap	109212
30	7.4	10 min.	Tube	109168
30	7.4	10 min.	Tube with Cap	109186
30	7.4	10 min.	Tap and Reel with Cap	109204
30	7.4	100 min.	Tube	109177

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
30	7.4	100 min.	Tube with Cap	109195
30	7.4	100 min.	Tap and Reel with Cap	109213
40	7.4	10 min.	Tube	109169
40	7.4	10 min.	Tube with Cap	109187
40	7.4	10 min.	Tap and Reel with Cap	109205
40	7.4	100 min.	Tube	109178
40	7.4	100 min.	Tube with Cap	109196
40	7.4	100 min.	Tap and Reel with Cap	109214
50	7.4	10 min.	Tube	109170
50	7.4	10 min.	Tube with Cap	109188
50	7.4	10 min.	Tap and Reel with Cap	109206
50	7.4	100 min.	Tube	109179
50	7.4	100 min.	Tube with Cap	109197
50	7.4	100 min.	Tap and Reel with Cap	109215
60	7.4	10 min.	Tube	109171
60	7.4	10 min.	Tube with Cap	109189
60	7.4	10 min.	Tap and Reel with Cap	109207
60	7.4	100 min.	Tube	109180
60	7.4	100 min.	Tube with Cap	109198
60	7.4	100 min.	Tap and Reel with Cap	109216

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE SMT

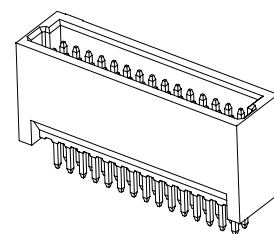
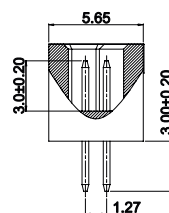
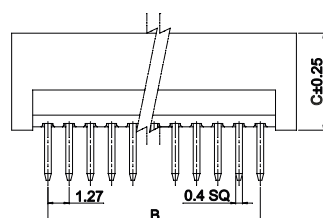
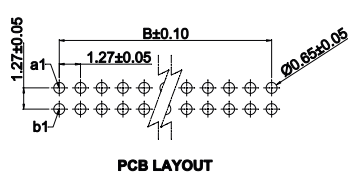
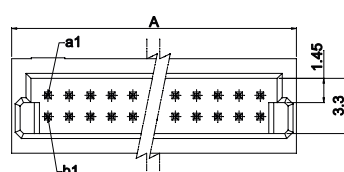
No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
70	7.4	10 min.	Tube	109172
70	7.4	10 min.	Tube with Cap	109190
70	7.4	10 min.	Tap and Reel with Cap	109208
70	7.4	100 min.	Tube	109181
70	7.4	100 min.	Tube with Cap	109199
70	7.4	100 min.	Tap and Reel with Cap	109217
80	7.4	10 min.	Tube	109173
80	7.4	10 min.	Tube with Cap	109191
80	7.4	10 min.	Tap and Reel with Cap	109209
80	7.4	100 min.	Tube	109182
80	7.4	100 min.	Tube with Cap	109200
80	7.4	100 min.	Tap and Reel with Cap	109218
100	7.4	10 min.	Tube	109174
100	7.4	10 min.	Tube with Cap	109192
100	7.4	10 min.	Tap and Reel with Cap	109210
100	7.4	100 min.	Tube	109183
100	7.4	100 min.	Tube with Cap	109201
100	7.4	100 min.	Tap and Reel with Cap	109219

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE DIP

DIMENSIONAL DRAWINGS

UNMATED STACKING HEIGHT 1.9 mm / 3.4 mm / 5.4 mm / 7.4 mm *



No. of Positions	A	B
10	9.41	5.08
20	15.76	11.43
30	22.11	17.78
40	28.46	24.13
50	34.81	30.48
60	41.16	36.83
70	47.51	43.18
80	53.86	49.53
100	66.56	62.23

Unmated Stacking Height*	C
1.9	5.8
3.4	7.3
5.4	9.3
7.4	11.3

* Refer to page 11 for board-to-board height that can be realized

All dimensions in mm

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE DIP

ORDERING INFORMATION

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
10	1.9	10 min.	Tube	109221
10	1.9	10 min.	Tube with Cap	109239
10	1.9	100 min.	Tube	109230
10	1.9	100 min.	Tube with Cap	109248
20	1.9	10 min.	Tube	109222
20	1.9	10 min.	Tube with Cap	109240
20	1.9	100 min.	Tube	109231
20	1.9	100 min.	Tube with Cap	109249
30	1.9	10 min.	Tube	109223
30	1.9	10 min.	Tube with Cap	109241
30	1.9	100 min.	Tube	109232
30	1.9	100 min.	Tube with Cap	109250
40	1.9	10 min.	Tube	109224
40	1.9	10 min.	Tube with Cap	109242
40	1.9	100 min.	Tube	109233
40	1.9	100 min.	Tube with Cap	109251
50	1.9	10 min.	Tube	109225
50	1.9	10 min.	Tube with Cap	109243

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE DIP

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
50	1.9	100 min.	Tube	109234
50	1.9	100 min.	Tube with Cap	109252
60	1.9	10 min.	Tube	109226
60	1.9	10 min.	Tube with Cap	109244
60	1.9	100 min.	Tube	109235
60	1.9	100 min.	Tube with Cap	109253
70	1.9	10 min.	Tube	109227
70	1.9	10 min.	Tube with Cap	109245
70	1.9	100 min.	Tube	109236
70	1.9	100 min.	Tube with Cap	109254
80	1.9	10 min.	Tube	109228
80	1.9	10 min.	Tube with Cap	109246
80	1.9	100 min.	Tube	109237
80	1.9	100 min.	Tube with Cap	109255
100	1.9	10 min.	Tube	109229
100	1.9	10 min.	Tube with Cap	109247
100	1.9	100 min.	Tube	109238
100	1.9	100 min.	Tube with Cap	109256
10	3.4	10 min.	Tube	109258
10	3.4	10 min.	Tube with Cap	109276

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE DIP

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
10	3.4	100 min.	Tube	109267
10	3.4	100 min.	Tube with Cap	109285
20	3.4	10 min.	Tube	109259
20	3.4	10 min.	Tube with Cap	109277
20	3.4	100 min.	Tube	109268
20	3.4	100 min.	Tube with Cap	109286
30	3.4	10 min.	Tube	109260
30	3.4	10 min.	Tube with Cap	109278
30	3.4	100 min.	Tube	109269
30	3.4	100 min.	Tube with Cap	109287
40	3.4	10 min.	Tube	109261
40	3.4	10 min.	Tube with Cap	109279
40	3.4	100 min.	Tube	109270
40	3.4	100 min.	Tube with Cap	109288
50	3.4	10 min.	Tube	109262
50	3.4	10 min.	Tube with Cap	109280
50	3.4	100 min.	Tube	109271
50	3.4	100 min.	Tube with Cap	109289
60	3.4	10 min.	Tube	109263
60	3.4	10 min.	Tube with Cap	109281

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE DIP

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
60	3.4	100 min.	Tube	109272
60	3.4	100 min.	Tube with Cap	109290
70	3.4	10 min.	Tube	109264
70	3.4	10 min.	Tube with Cap	109282
70	3.4	100 min.	Tube	109273
70	3.4	100 min.	Tube with Cap	109291
80	3.4	10 min.	Tube	109265
80	3.4	10 min.	Tube with Cap	109283
80	3.4	100 min.	Tube	109274
80	3.4	100 min.	Tube with Cap	109292
100	3.4	10 min.	Tube	109266
100	3.4	10 min.	Tube with Cap	109284
100	3.4	100 min.	Tube	109275
100	3.4	100 min.	Tube with Cap	109293
10	5.4	10 min.	Tube	109295
10	5.4	10 min.	Tube with Cap	109313
10	5.4	100 min.	Tube	109304
10	5.4	100 min.	Tube with Cap	109322
20	5.4	10 min.	Tube	109296
20	5.4	10 min.	Tube with Cap	109314

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE DIP

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
20	5.4	100 min.	Tube	109305
20	5.4	100 min.	Tube with Cap	109323
30	5.4	10 min.	Tube	109297
30	5.4	10 min.	Tube with Cap	109315
30	5.4	100 min.	Tube	109306
30	5.4	100 min.	Tube with Cap	109324
40	5.4	10 min.	Tube	109298
40	5.4	10 min.	Tube with Cap	109316
40	5.4	100 min.	Tube	109307
40	5.4	100 min.	Tube with Cap	109325
50	5.4	10 min.	Tube	109299
50	5.4	10 min.	Tube with Cap	109317
50	5.4	100 min.	Tube	109308
50	5.4	100 min.	Tube with Cap	109326
60	5.4	10 min.	Tube	109300
60	5.4	10 min.	Tube with Cap	109318
60	5.4	100 min.	Tube	109309
60	5.4	100 min.	Tube with Cap	109327
70	5.4	10 min.	Tube	109301
70	5.4	10 min.	Tube with Cap	109319

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE DIP

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
70	5.4	100 min.	Tube	109310
70	5.4	100 min.	Tube with Cap	109328
80	5.4	10 min.	Tube	109302
80	5.4	10 min.	Tube with Cap	109320
80	5.4	100 min.	Tube	109311
80	5.4	100 min.	Tube with Cap	109329
100	5.4	10 min.	Tube	109303
100	5.4	10 min.	Tube with Cap	109321
100	5.4	100 min.	Tube	109312
100	5.4	100 min.	Tube with Cap	109330
10	7.4	10 min.	Tube	109332
10	7.4	10 min.	Tube with Cap	109350
10	7.4	100 min.	Tube	109341
10	7.4	100 min.	Tube with Cap	109359
20	7.4	10 min.	Tube	109333
20	7.4	10 min.	Tube with Cap	109351
20	7.4	100 min.	Tube	109342
20	7.4	100 min.	Tube with Cap	109360
30	7.4	10 min.	Tube	109334
30	7.4	10 min.	Tube with Cap	109352

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE DIP

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
30	7.4	100 min.	Tube	109343
30	7.4	100 min.	Tube with Cap	109361
40	7.4	10 min.	Tube	109335
40	7.4	10 min.	Tube with Cap	109353
40	7.4	100 min.	Tube	109344
40	7.4	100 min.	Tube with Cap	109362
50	7.4	10 min.	Tube	109336
50	7.4	10 min.	Tube with Cap	109354
50	7.4	100 min.	Tube	109345
50	7.4	100 min.	Tube with Cap	109363
60	7.4	10 min.	Tube	109337
60	7.4	10 min.	Tube with Cap	109355
60	7.4	100 min.	Tube	109346
60	7.4	100 min.	Tube with Cap	109364
70	7.4	10 min.	Tube	109338
70	7.4	10 min.	Tube with Cap	109356
70	7.4	100 min.	Tube	109347
70	7.4	100 min.	Tube with Cap	109365
80	7.4	10 min.	Tube	109339
80	7.4	10 min.	Tube with Cap	109357

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL MALE DIP

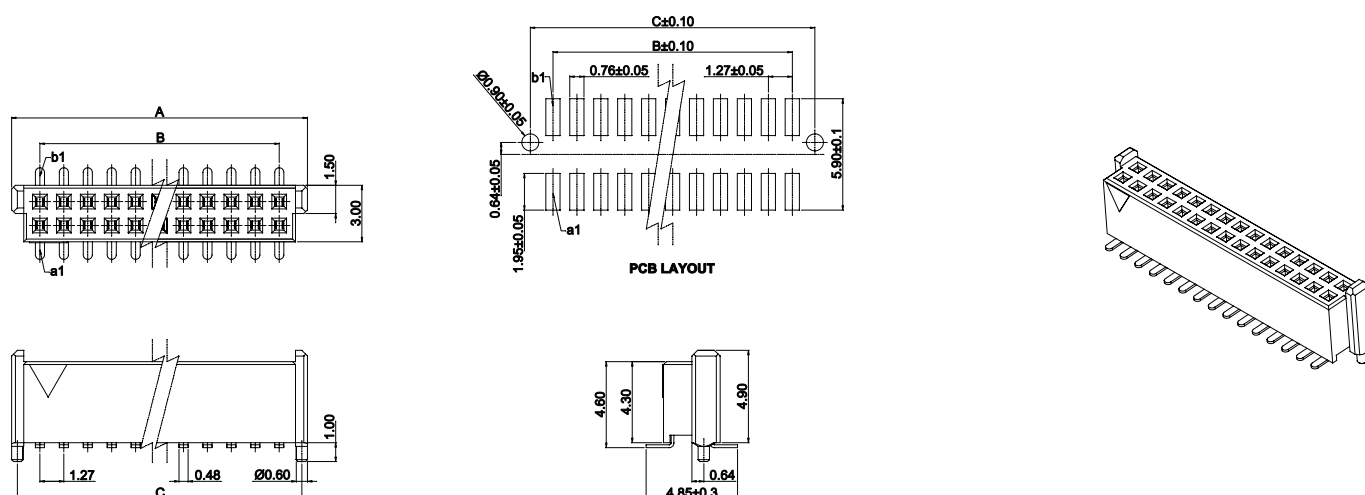
No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
80	7.4	100 min.	Tube	109348
80	7.4	100 min.	Tube with Cap	109366
100	7.4	10 min.	Tube	109340
100	7.4	10 min.	Tube with Cap	109358
100	7.4	100 min.	Tube	109349
100	7.4	100 min.	Tube with Cap	109367

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE SMT

DIMENSIONAL DRAWINGS

UNMATED STACKING HEIGHT 4.6 mm *



No. of Positions	A	B	C
10	8.08	5.08	7.48
20	14.43	11.43	13.83
30	20.78	17.78	20.18
40	27.13	24.13	26.53
50	33.48	30.48	32.88
60	39.83	36.83	39.23
70	46.18	43.18	45.58
80	52.53	49.53	51.93
100	65.23	62.23	64.63

* Refer to page 11 for board-to-board height that can be realized

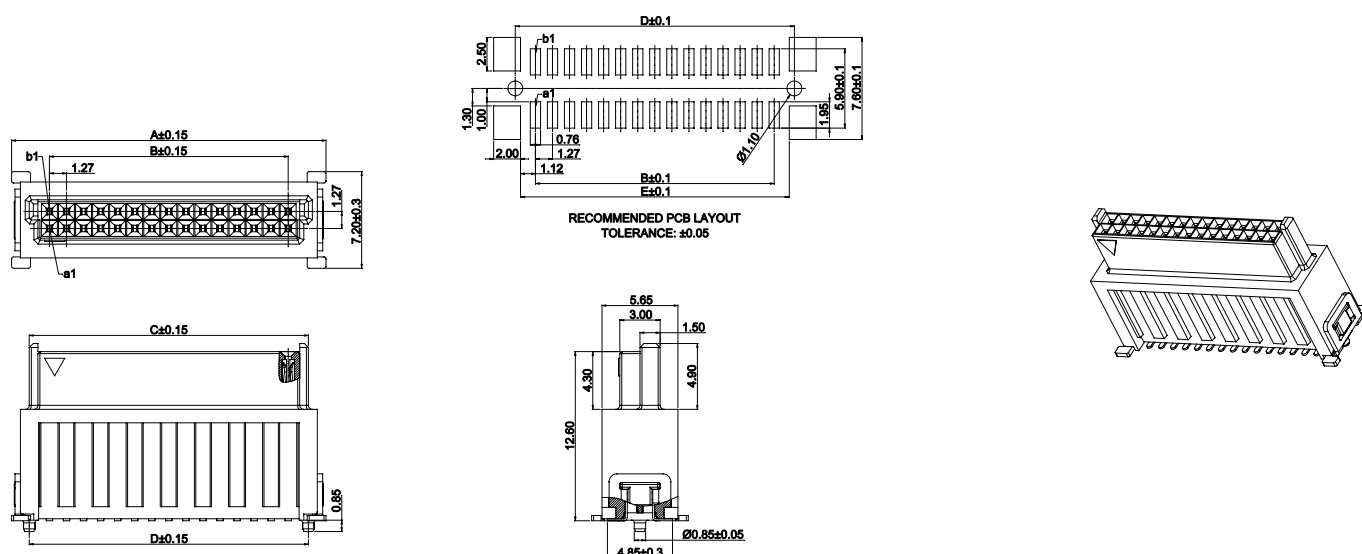
All dimensions in mm

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE SMT

DIMENSIONAL DRAWINGS

UNMATED STACKING HEIGHT 12.6 mm *



No. of Positions	A	B	C	D	E
10	10.71	5.08	8.08	8.08	7.31
20	17.06	11.43	14.43	14.43	13.66
30	23.41	17.78	20.78	20.78	20.01
40	29.76	24.13	27.13	27.13	26.36
50	36.11	30.48	33.48	33.48	32.71
60	42.46	36.83	39.83	39.83	39.06
70	48.81	43.18	46.18	46.18	45.41
80	55.16	49.53	52.53	52.53	51.76
100	67.86	62.23	65.23	65.23	64.46

* Refer to page 11 for board-to-board height that can be realized

All dimensions in mm

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE SMT

ORDERING INFORMATION

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
10	4.6	10 min.	Tube	109369
10	4.6	10 min.	Tube with Cap	109387
10	4.6	10 min.	Tap and Reel with Cap	109405
10	4.6	100 min.	Tube	109378
10	4.6	100 min.	Tube with Cap	109396
10	4.6	100 min.	Tap and Reel with Cap	109414
20	4.6	10 min.	Tube	109370
20	4.6	10 min.	Tube with Cap	109388
20	4.6	10 min.	Tap and Reel with Cap	109406
20	4.6	100 min.	Tube	109379
20	4.6	100 min.	Tube with Cap	109397
20	4.6	100 min.	Tap and Reel with Cap	109415
30	4.6	10 min.	Tube	109371
30	4.6	10 min.	Tube with Cap	109389
30	4.6	10 min.	Tap and Reel with Cap	109407
30	4.6	100 min.	Tube	109380
30	4.6	100 min.	Tube with Cap	109398
30	4.6	100 min.	Tap and Reel with Cap	109416

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
40	4.6	10 min.	Tube	109372
40	4.6	10 min.	Tube with Cap	109390
40	4.6	10 min.	Tap and Reel with Cap	109408
40	4.6	100 min.	Tube	109381
40	4.6	100 min.	Tube with Cap	109399
40	4.6	100 min.	Tap and Reel with Cap	109417
50	4.6	10 min.	Tube	109373
50	4.6	10 min.	Tube with Cap	109391
50	4.6	10 min.	Tap and Reel with Cap	109409
50	4.6	100 min.	Tube	109382
50	4.6	100 min.	Tube with Cap	109400
50	4.6	100 min.	Tap and Reel with Cap	109418
60	4.6	10 min.	Tube	109374
60	4.6	10 min.	Tube with Cap	109392
60	4.6	10 min.	Tap and Reel with Cap	109410
60	4.6	100 min.	Tube	109383
60	4.6	100 min.	Tube with Cap	109401
60	4.6	100 min.	Tap and Reel with Cap	109419
70	4.6	10 min.	Tube	109375
70	4.6	10 min.	Tube with Cap	109393

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
70	4.6	10 min.	Tap and Reel with Cap	109411
70	4.6	100 min.	Tube	109384
70	4.6	100 min.	Tube with Cap	109402
70	4.6	100 min.	Tap and Reel with Cap	109420
80	4.6	10 min.	Tube	109376
80	4.6	10 min.	Tube with Cap	109394
80	4.6	10 min.	Tap and Reel with Cap	109412
80	4.6	100 min.	Tube	109385
80	4.6	100 min.	Tube with Cap	109403
80	4.6	100 min.	Tap and Reel with Cap	109421
100	4.6	10 min.	Tube	109377
100	4.6	10 min.	Tube with Cap	109395
100	4.6	10 min.	Tap and Reel with Cap	109413
100	4.6	100 min.	Tube	109386
100	4.6	100 min.	Tube with Cap	109404
100	4.6	100 min.	Tap and Reel with Cap	109422
10	12.6	10 min.	Tube	109424
10	12.6	10 min.	Tube with Cap	109442
10	12.6	10 min.	Tap and Reel with Cap	109460
10	12.6	100 min.	Tube	109433

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
10	12.6	100 min.	Tube with Cap	109451
10	12.6	100 min.	Tap and Reel with Cap	109469
20	12.6	10 min.	Tube	109425
20	12.6	10 min.	Tube with Cap	109443
20	12.6	10 min.	Tap and Reel with Cap	109461
20	12.6	100 min.	Tube	109434
20	12.6	100 min.	Tube with Cap	109452
20	12.6	100 min.	Tap and Reel with Cap	109470
30	12.6	10 min.	Tube	109426
30	12.6	10 min.	Tube with Cap	109444
30	12.6	10 min.	Tap and Reel with Cap	109462
30	12.6	100 min.	Tube	109435
30	12.6	100 min.	Tube with Cap	109453
30	12.6	100 min.	Tap and Reel with Cap	109471
40	12.6	10 min.	Tube	109427
40	12.6	10 min.	Tube with Cap	109445
40	12.6	10 min.	Tap and Reel with Cap	109463
40	12.6	100 min.	Tube	109436
40	12.6	100 min.	Tube with Cap	109454
40	12.6	100 min.	Tap and Reel with Cap	109472

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE SMT

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
50	12.6	10 min.	Tube	109428
50	12.6	10 min.	Tube with Cap	109446
50	12.6	10 min.	Tap and Reel with Cap	109464
50	12.6	100 min.	Tube	109437
50	12.6	100 min.	Tube with Cap	109455
50	12.6	100 min.	Tap and Reel with Cap	109473
60	12.6	10 min.	Tube	109429
60	12.6	10 min.	Tube with Cap	109447
60	12.6	10 min.	Tap and Reel with Cap	109465
60	12.6	100 min.	Tube	109438
60	12.6	100 min.	Tube with Cap	109456
60	12.6	100 min.	Tap and Reel with Cap	109474
70	12.6	10 min.	Tube	109430
70	12.6	10 min.	Tube with Cap	109448
70	12.6	10 min.	Tap and Reel with Cap	109466
70	12.6	100 min.	Tube	109439
70	12.6	100 min.	Tube with Cap	109457
70	12.6	100 min.	Tap and Reel with Cap	109475
80	12.6	10 min.	Tube	109431
80	12.6	10 min.	Tube with Cap	109449

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE SMT

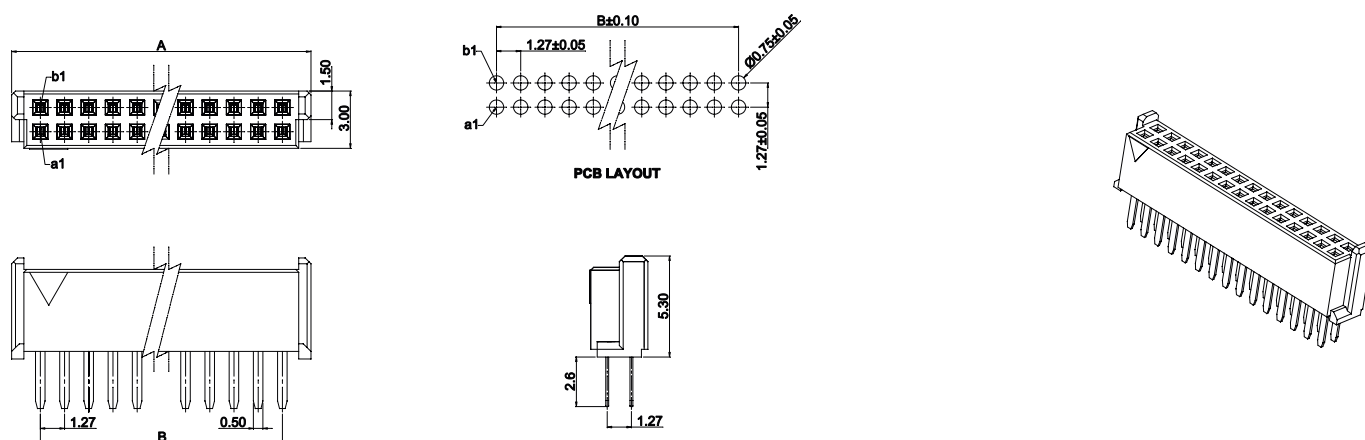
No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
80	12.6	10 min.	Tap and Reel with Cap	109467
80	12.6	100 min.	Tube	109440
80	12.6	100 min.	Tube with Cap	109458
80	12.6	100 min.	Tap and Reel with Cap	109476
100	12.6	10 min.	Tube	109432
100	12.6	10 min.	Tube with Cap	109450
100	12.6	10 min.	Tap and Reel with Cap	109468
100	12.6	100 min.	Tube	109441
100	12.6	100 min.	Tube with Cap	109459
100	12.6	100 min.	Tap and Reel with Cap	109477

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE DIP

DIMENSIONAL DRAWINGS

UNMATED STACKING HEIGHT 4.6 mm *



No. of Positions	A	B
10	8.08	5.08
20	14.43	11.43
30	20.78	17.78
40	27.13	24.13
50	33.48	30.48
60	39.83	36.83
70	46.18	43.18
80	52.53	49.53
100	65.23	62.23

* Refer to page 11 for board-to-board height that can be realized

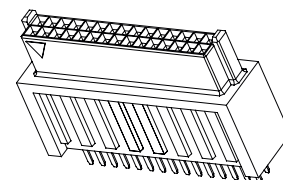
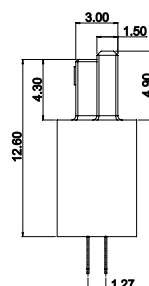
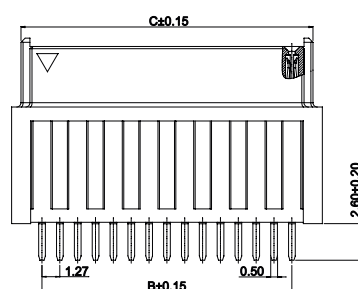
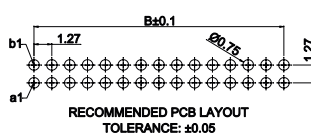
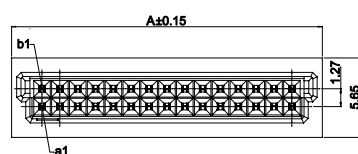
All dimensions in mm

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE DIP

DIMENSIONAL DRAWINGS

UNMATED STACKING HEIGHT 12.6 mm *



No. of Positions	A	B	C
10	9.41	5.08	8.08
20	15.76	11.43	14.43
30	22.11	17.78	20.78
40	28.46	24.13	27.13
50	34.81	30.48	33.48
60	41.16	36.83	39.83
70	47.51	43.18	46.18
80	53.86	49.53	52.53
100	66.56	62.23	65.23

* Refer to page 11 for board-to-board height that can be realized

All dimensions in mm

MiniMez - 1.27 mm Board-to-Board Connectors

VERTICAL FEMALE DIP

ORDERING INFORMATION

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
10	4.6	10 min.	Tube	109479
10	4.6	10 min.	Tube with Cap	109497
10	4.6	100 min.	Tube	109488
10	4.6	100 min.	Tube with Cap	109506
20	4.6	10 min.	Tube	109480
20	4.6	10 min.	Tube with Cap	109498
20	4.6	100 min.	Tube	109489
20	4.6	100 min.	Tube with Cap	109507
30	4.6	10 min.	Tube	109481
30	4.6	10 min.	Tube with Cap	109499
30	4.6	100 min.	Tube	109490
30	4.6	100 min.	Tube with Cap	109508
40	4.6	10 min.	Tube	109482
40	4.6	10 min.	Tube with Cap	109500
40	4.6	100 min.	Tube	109491
40	4.6	100 min.	Tube with Cap	109509
50	4.6	10 min.	Tube	109483
50	4.6	10 min.	Tube with Cap	109501

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VERTICAL FEMALE DIP

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
50	4.6	100 min.	Tube	109492
50	4.6	100 min.	Tube with Cap	109510
60	4.6	10 min.	Tube	109484
60	4.6	10 min.	Tube with Cap	109502
60	4.6	100 min.	Tube	109493
60	4.6	100 min.	Tube with Cap	109511
70	4.6	10 min.	Tube	109485
70	4.6	10 min.	Tube with Cap	109503
70	4.6	100 min.	Tube	109494
70	4.6	100 min.	Tube with Cap	109512
80	4.6	10 min.	Tube	109486
80	4.6	10 min.	Tube with Cap	109504
80	4.6	100 min.	Tube	109495
80	4.6	100 min.	Tube with Cap	109513
100	4.6	10 min.	Tube	109487
100	4.6	10 min.	Tube with Cap	109505
100	4.6	100 min.	Tube	109496
100	4.6	100 min.	Tube with Cap	109514
10	12.6	10 min.	Tube	109516
10	12.6	10 min.	Tube with Cap	109534

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VERTICAL FEMALE DIP

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
10	12.6	100 min.	Tube	109525
10	12.6	100 min.	Tube with Cap	109543
20	12.6	10 min.	Tube	109517
20	12.6	10 min.	Tube with Cap	109535
20	12.6	100 min.	Tube	109526
20	12.6	100 min.	Tube with Cap	109544
30	12.6	10 min.	Tube	109518
30	12.6	10 min.	Tube with Cap	109536
30	12.6	100 min.	Tube	109527
30	12.6	100 min.	Tube with Cap	109545
40	12.6	10 min.	Tube	109519
40	12.6	10 min.	Tube with Cap	109537
40	12.6	100 min.	Tube	109528
40	12.6	100 min.	Tube with Cap	109546
50	12.6	10 min.	Tube	109520
50	12.6	10 min.	Tube with Cap	109538
50	12.6	100 min.	Tube	109529
50	12.6	100 min.	Tube with Cap	109547
60	12.6	10 min.	Tube	109521
60	12.6	10 min.	Tube with Cap	109539

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VERTICAL FEMALE DIP

No. of Pins	Unmated Stacking Height (mm)	Mating Cycles	Packaging	Part Number
60	12.6	100 min.	Tube	109530
60	12.6	100 min.	Tube with Cap	109548
70	12.6	10 min.	Tube	109522
70	12.6	10 min.	Tube with Cap	109540
70	12.6	100 min.	Tube	109531
70	12.6	100 min.	Tube with Cap	109549
80	12.6	10 min.	Tube	109523
80	12.6	10 min.	Tube with Cap	109541
80	12.6	100 min.	Tube	109532
80	12.6	100 min.	Tube with Cap	109550
100	12.6	10 min.	Tube	109524
100	12.6	10 min.	Tube with Cap	109542
100	12.6	100 min.	Tube	109533
100	12.6	100 min.	Tube with Cap	109551

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