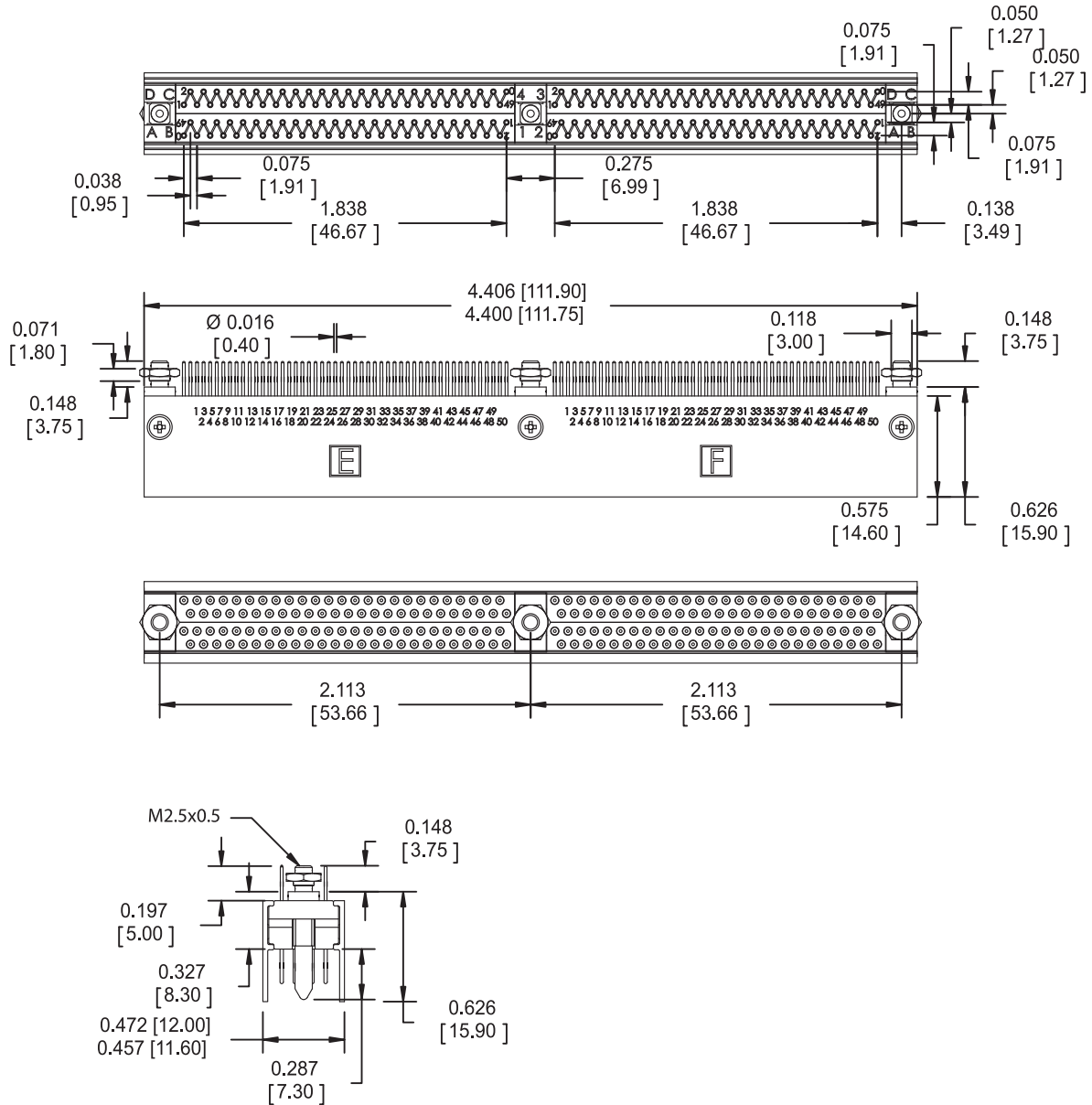# High Density Modular Printed Circuit Board Connectors

- For military, aerospace and space applications
- Ruggedized metal shell printed circuit board connector with shrouded plug for pin protection
- 200 signal contacts
- Male plug: Straight, 90° and surface mount terminations
- Female receptacle: Straight and 90° terminations
- Pitch:

  On mating side
  - Receptacle and plug: 0.075 [1.91] between contacts and rows

  On termination side
  - Receptacle: 0.075 [1.91] between contacts and rows; 0.100 [2.54] between the two central rows
  - Plug: 0.038 [0.95] between contacts; 0.075 [1.91] between rows; 0.100 [2.54] between the two central rows
- Mixed layout for signal and special contacts
- Modular construction

General Specifications

Insulator Material	Diallyl-phthalate UL94V0
Frame Material	Aluminum alloy
Contact Material Plating	 Copper alloy Gold over nickel
Guide Material	Stainless steel
Contact Resistance	< 8 milliohms
Temperature Rating	-55 to 125° C
Current Rating	3 Amps per contact
Insulation Resistance	> 10^6 megohms
Contact Life Cycles	100,000
Extraction Forces	1.8 oz.
Voltage Rating	200V
Contact Diameter	0.50mm
Impedance	50Ω

Dimensions are in inches [mm]

200 Contact Plug
Straight, Through Board Solder
0.138 [3.50] to 0.157 [4.00] Pin

0.075 [1.91]

0.050 [1.27]

0.050 [1.27]

0.075 [1.91]

0.038 [0.95]

0.075 [1.91]

1.838 [46.67]

0.275 [6.99]

1.838 [46.67]

0.138 [3.49]

0.071 [1.80]

Ø 0.016 [0.40]

4.406 [111.90]
4.400 [111.75]

0.118 [3.00]

0.148 [3.75]

0.148 [3.75]

E

F

0.575 [14.60]

0.626 [15.90]

2.113 [53.66]

2.113 [53.66]

M2.5x0.5

0.148 [3.75]

0.197 [5.00]

0.327 [8.30]

0.472 [12.00]
0.457 [11.60]
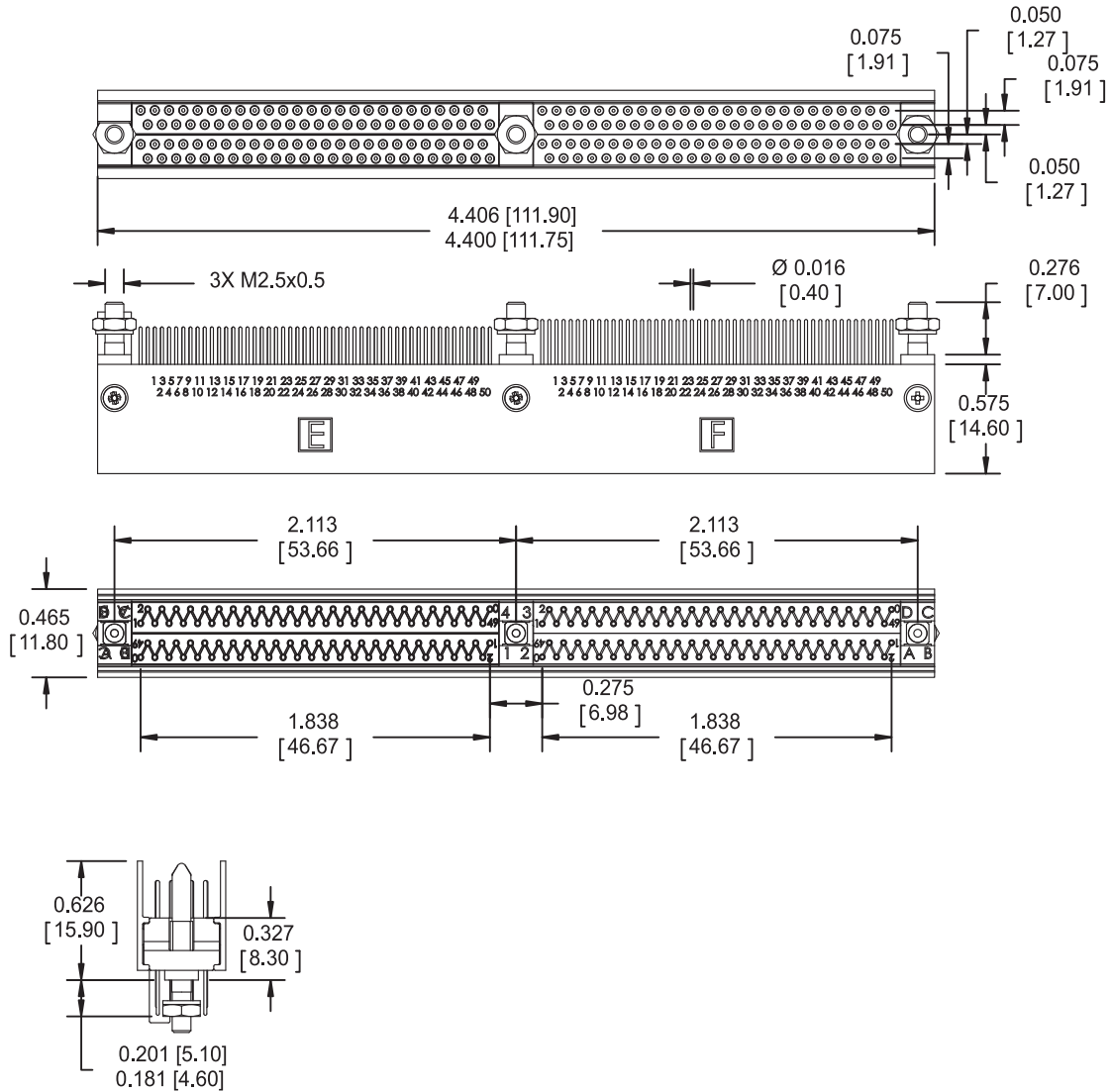
0.287 [7.30]

0.626 [15.90]

Dimensions are in inches [mm]

200 Contact Plug
Straight, Through Board Solder
0.181 [4.60] to 0.201 [5.10] Pin

0.050 [1.27]
0.075 [1.91]
0.075 [1.91]
0.050 [1.27]

4.406 [111.90]
4.400 [111.75]

3X M2.5x0.5

Ø 0.016 [0.40]

0.276 [7.00]

1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50

1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50

E   F

0.575 [14.60]

2.113 [53.66]   2.113 [53.66]

0.465 [11.80]

0.275 [6.98]

1.838 [46.67]   1.838 [46.67]

0.626 [15.90]

0.327 [8.30]

0.201 [5.10]
0.181 [4.60]

Dimensions are in inches [mm]

200 Contact Plug
Surface Mount (Centered Printed Circuit Board)

4.225 [107.32]

2.113 [53.66]

2.113 [53.66]

0.075 [1.91]

0.038 [0.95]

0.100 [2.54]

0.075 [1.91]

0.075 [1.91]

4.406 [111.90]
4.400 [111.75]

0.275 [6.99]

1.8375 ± 0.0039 [46.68 ± 0.10]

1.8375 ± 0.0039 [46.68 ± 0.10]

0.276 [7.00]

0.137 [3.49]

0.138 [3.50]

0.575 [14.60]

0.287 [7.30]

0.472 [12.00]
0.457 [11.60]

0.280 [7.10]

Ø 0.079 [2.00]

$0.152 \begin{smallmatrix} +0.010 \\ -0.018 \end{smallmatrix}$

$\left[3.86 \begin{smallmatrix} +0.25 \\ -0.46 \end{smallmatrix} \right]$

0.199 [5.05]

0.171 [4.35] MAX

0.142 ± 0.008 [3.60 ± 0.20]
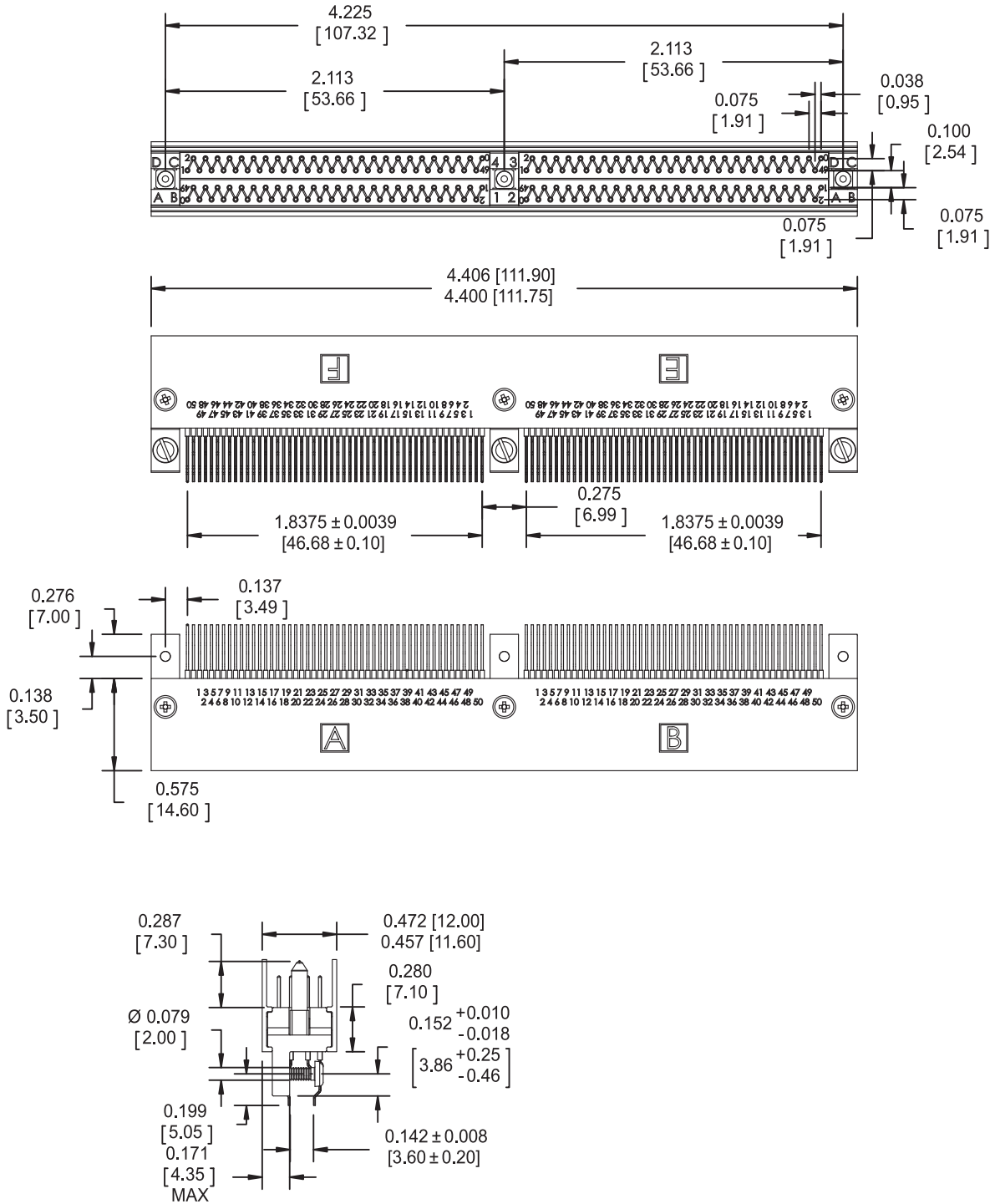
Dimensions are in inches [mm]

200 Contact Receptacle
Straight, Through Board Solder

4.406 [111.90]
4.400 [111.75]

HYPERTRONICS   E   F

2.113 [53.66]   2.113 [53.66]

0.138 [3.49]   1.838 [46.67]   0.275 [6.99]   1.838 [46.67]   0.038 [0.95]   0.138 [3.49]

0.075 [1.91]

0.075 [1.91]   0.050 [1.27]

0.050 [1.27]

0.156 [3.97]   1.800 [45.72]   0.313 [7.94]   1.800 [45.72]   0.156 [3.97]

0.075 [1.91]   0.275 [6.98]

HYPERTRONICS   E   F

0.059 [1.50]

0.311 [7.90]

Ø 0.016 [0.40]

0.201 [5.10]
0.185 [4.70]

0.394 [10.00] MAX
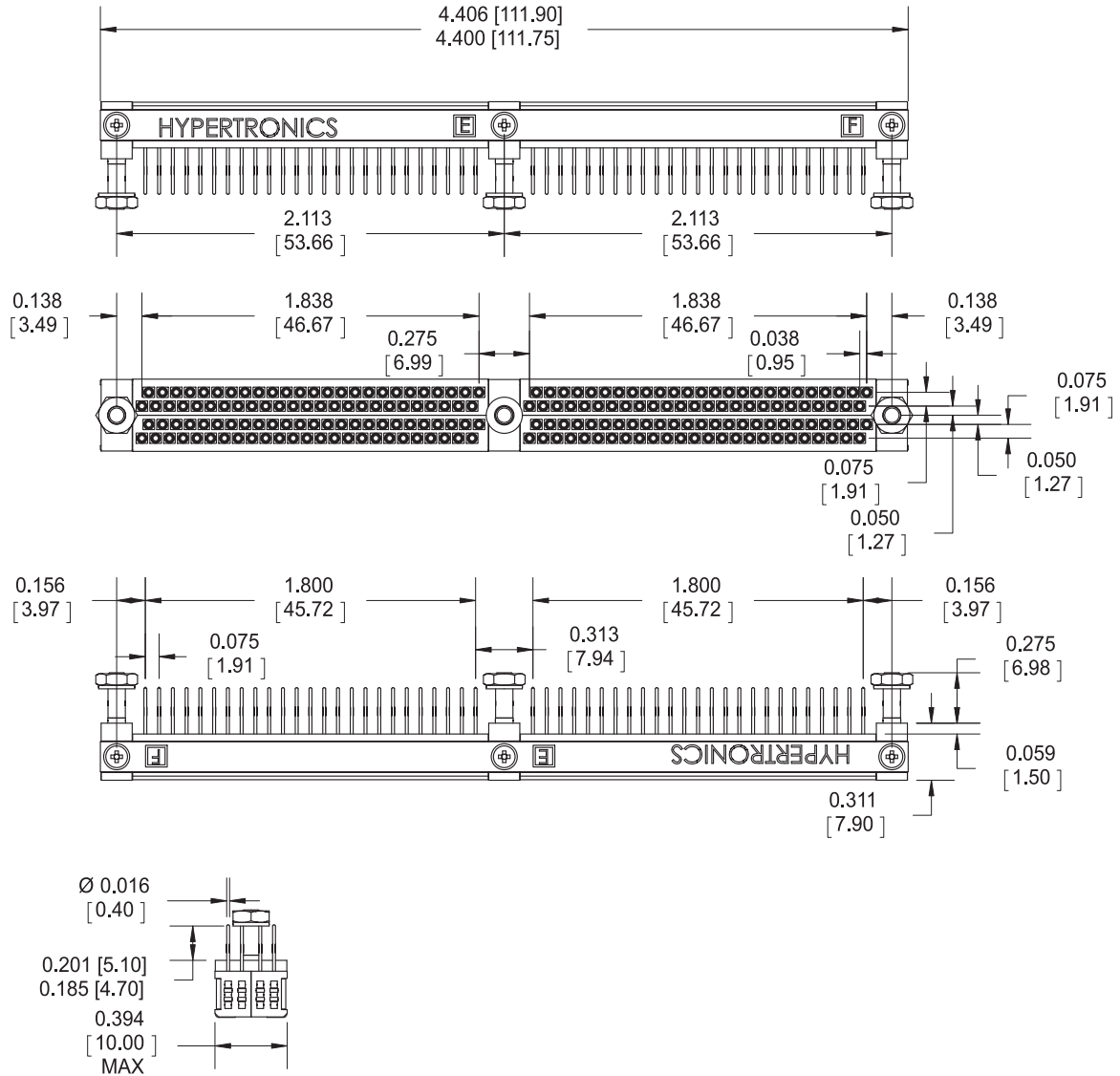
Dimensions are in inches [mm]

200 Contact Receptacle
90° Through Board Solder

0.075
[1.91]

0.038
[0.95]

0.138
[3.49]

0.075
[1.91]

0.050
[1.27]

0.075
[1.91]

0.138
[3.49]

1.838
[46.67]

0.275
[6.99]

1.838
[46.67]

4.406 [111.90]
4.400 [111.75]

HYPERTRONICS

0.311
[7.90]

2.113
[53.66]

2.113
[53.66]

4.225
[107.32]

0.075
[1.91]

0.313
[7.94]

1.800
[45.72]

1.800
[45.72]

Ø 0.098
[2.50]

0.138
[3.50]

M2.0x0.4-6g

0.260 [6.60]
0.240 [6.10]

0.104 ± 0.002
[2.65 ± 0.05]

0.394
[10.00]
MAX

0.235
[5.97]
MAX

0.213
[5.41]

0.075
[1.91]

0.075
[1.91]

0.075
[1.91]

0.075
[1.91]
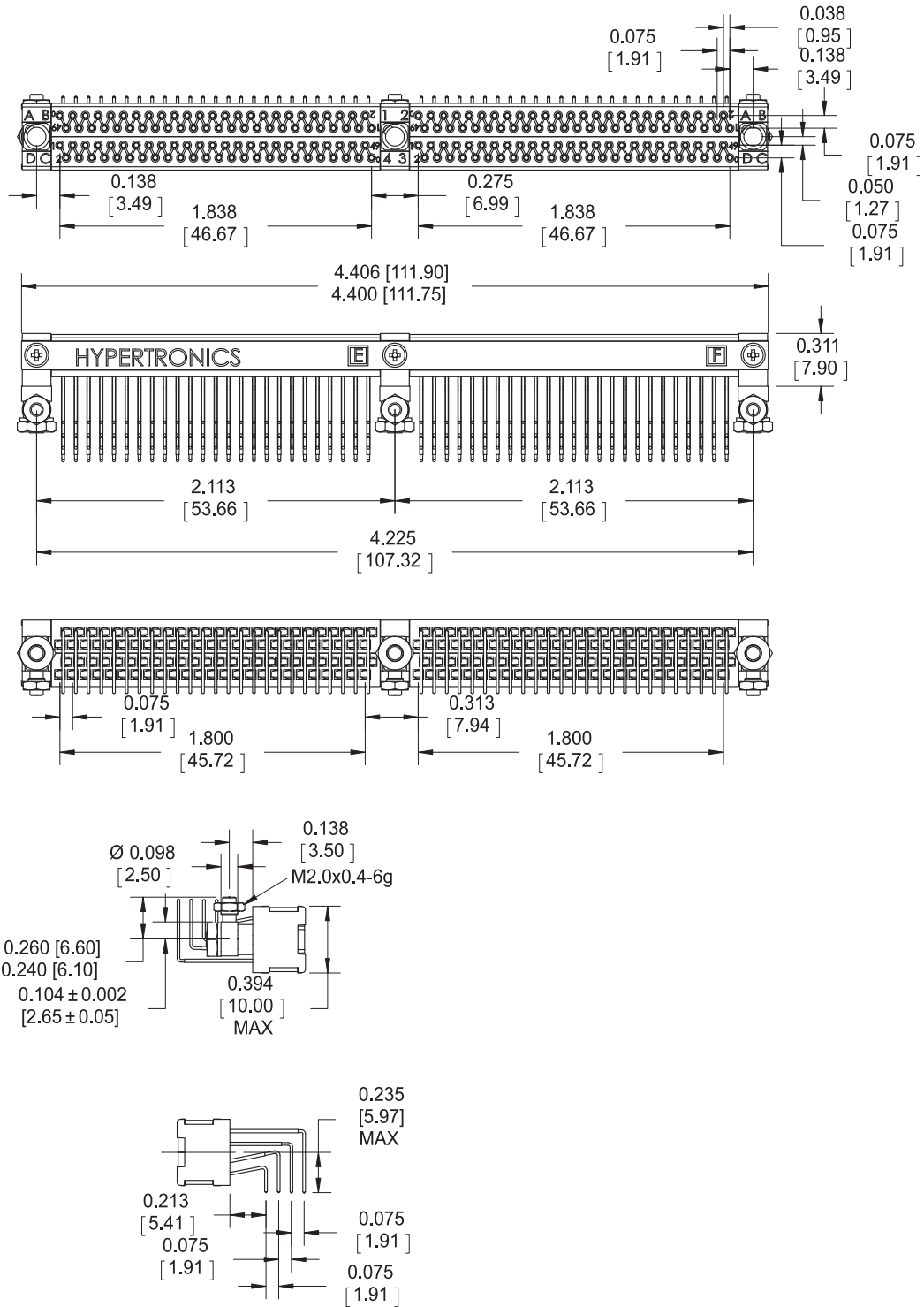
Dimensions are in inches [mm]

Ordering Information

Plugs	Part Number
200 Contacts Straight, Through Board Solder 0.138 [3.50] to 0.157 [4.00] Pin	KMR-200-19-30-116
200 Contacts Straight, Through Board Solder 0.181 [4.60] to 0.201 [5.10] Pin	KMR-200-19-31-114
200 Contacts Surface Mount	KMR-200-19-44-125

Receptacles	Part Number
200 Contacts Straight Through Board Solder	KMR-200-28-10-134
200 Contacts 90° Through Board Solder	KMR-200-28-96-122

Dimensions are in inches [mm]