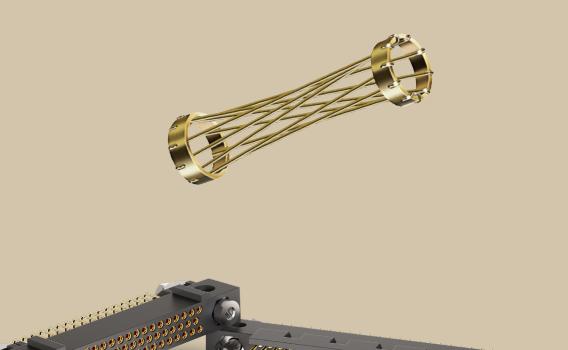
# HMP .075 X .075 HYPERBOLOID SERIES













# www.iehcorp.com

# **IEH Quality Statement**

Listening to our customers and meeting their needs while continuously improving our processes and services



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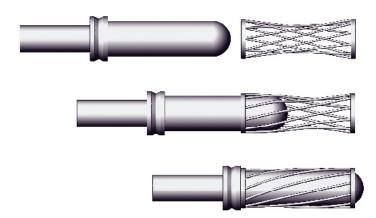
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#### APPENDIX

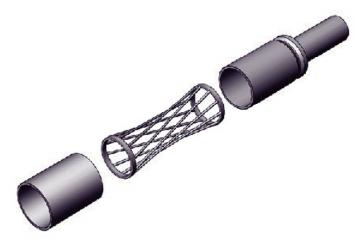
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The HYPERBOLOID contact is an advanced design that satisfies performance requirements previously considered impossible. Radically different in concept, it is used in connectors having the highest standards of performance. The distinguishing feature of the HYPERBOLOID socket is the hyper-boloid-shaped sleeve formed by straight wires strung at an angle to the longitudinal axis. Viewed from the side, you see a curve defined by a series of apparent short straight line segments which are tangent lines to points along a hyperbolic curve. This geometry provides for a design which has a decreasing circumscribed circle when viewed from the entry. It begins larger than the pin acceptance diameter and is less than this same diameter at the center. When the pin is inserted into this sleeve, the wires stretch, well within elastic limits, to accommodate it. In so doing, the wires wrap themselves around the pin providing a number of continuous line contact paths. The illustration below will assist in visualization.



The actual physical construction of the contact involves several components. The wires are strung on an internal wire carrier (inner sleeve) which is subsequently capped or enclosed by a front outer ring (front sleeve) and rear ring which includes the termination configuration (terminal). All components to the assembly are completely finished with the specified electroplating prior to assembly. The wires are continuous process plated on reel before use. In this manner, interface finish requirements can be controlled very closely without the common problems of gradient, shadow, or other finish imperfections often appearing in alternative designs. Very often, this processing feature permits the specifier to reduce precious metal content with resultant savings. Joints are calculated interference fits, insuring gas tight interfaces between all elements of the HYPERBOLOID construction. An exploded view is provided next. The unique geometry, precision processing, and careful attention to quality result in a highly desirable contact design which provides:



- VLIF (Very Low Insertion Force): Common sizes #22 and less average under one ounce per contact.
- Extraordinary Resistance to Shock & Vibration: Tests exceeding 300 g's without discontinuity.
- Duty Cycle Exceeding 100,000 Mate/Demate: The burnishing action of the wires on the pin surface is non-destructive. Unlike the "plow" and scrape action of common designs, HYPERBOLOID's gentle mating action enhances life.
- Low, Low Contact Resistance: The multiplicity of line contact, as opposed to point contact in other designs, provides an excellent interface exhibiting low contact resistance (often less than 1/2 of MIL spec. allowances). This characteristic also provides for a cooler running contact under load.
- Improved Current Carrying Capacity: The low contact resistance gives a lower °C rise from ambient under load. This feature often allows the user to operate the same size contact under higher load.
- Highest Reliability: In use for over 40 years under the most demanding conditions HYPERBOLOID has proven itself to be the leading design for integrity and reliability. On space platforms, ships and boats at sea, land vehicles, fighter and transport aircraft, missiles, torpedoes, medical and transplant electronics, industrial and environmental controls, rail, construction, ATE and test equipment, PGA sockets, test interface stations, and other applications, HYPERBOLOID has lived up to its promise of the highest reliability connector available.

#### HMP SERIES



#### **SPECIFICATIONS**

MATERIALS	
MATERIALS: Pin Contacts:	Dh Dr man ACTM D120, DoCu man ACTM D106 or D107, or Cu allow
Pin Contacts: Pin Diameter	PhBr per ASTM B139, BeCu per ASTM B196 or B197, or Cu alloy 0.6mm nominal
	0.011111 1101111141
Socket Contacts:	Decument ACTM D107
Contact Wires:	BeCu per ASTM B197
Termination:	PhBr per ASTM B139 or Cu alloy or BeCu per B196/B197
Support Elements:	Cu alloy
Hardware:	Corrosion resistant steel per ASTM A582 ('D' shaped guide receptacles are BeCu per ASTM B196 or B197) or Cu alloy
Insulator:	Modified polyphenylene sulfide per MIL-M-24519, Type GST-40F or Equivalent
Pin Shields:	Aluminum 5052-H32 per QQ-A-250/8
FINISHES:	
Pin Contacts:	Gold per MIL-DTL-45204 Type II, Class 1 (.000050), Grade C over Nickel, 0.000050 min., per SAE-AMS-QQ-N-290 over Copper, 0.000010 min., per SAE AMS 2418
Socket Contacts:	mini., per 5/12-7/10-QQ-10-290 over Copper, 0.000010 mini., per 5/12 /10/0 2410
Contact Wires:	Gold per MIL-DTL-45204 Type II, Class 1 (.000050), Grade C over Nickel, 0.000050
Contact Whes.	min., per SAE-AMS-QQ-N-290 over Copper, 0.000010 min., per SAE AMS 2418
Termination:	Gold per MIL-DTL-45204, Type II Class 00 (.000020), Grade C over Nickel, 0.000050
Termination.	min., per SAE-AMS-QQ-N-290 over Copper, 0.000010 min., per SAE AMS 2418 or solder dip
	over
	Nickel, 0.000050 min., per SAE-AMS-QQ-N-290 over Copper, 0.000010 min., per SAE AMS 2418
Support Elements:	Nickel, 0.000050 min., per SAE-AMS-QQ-N-290 over Copper, 0.000010 min., per SAE AMS 2418
Hardware:	Passivate per SAE-AMS2700 except BeCu hardware to be Nickel plate, 0.000050 min.
Hardware.	i assivate per SAL-AWS2700 except becu nardware to be ivieker plate, 0.000050 mm.
PERFORMANCE:	
Current Rating:	4* amp continuous (higher ratings may be supported-contact factory)
Insulation Resistance:	5000 megaohms min. – EIA-364-21 & MIL-DTL-55302 (par. 4.5.8)
Contact Resistance:	8 milliohms max, - EIA-364-06 & MIL-DTL-55302 (par. 4.5.5)
Test Voltage (DWV):	750 VAC RMS @ sea level - EIA-364-20 & MIL-DTL-55302 (par. 4.5.7.1)
	250 VAC RMS @ 70,000 ft.
Temperature:	-65°C to +125°C (-86°F to +257°F)
Mating Force:	0.15 lbs. x number of contacts, max MIL-STD-55302 (par. 4.5.4)
De-mating Force:	0.03 lbs. x number of contacts, min MIL-STD-55302 (par. 4.5.4)
Contact Life:	100,000 mating cycles – Exceeds MIL-DTL-55302 (par. 4.5.9)
Solderability:	IPC/EIA J-STD-002, Category 3
Humidity:	IAW EIA-364-31, Method IV, except 7A & 7B (not required)
Vibration:	IAW EIA-364-28 & MIL-DTL-55302 (par. 4.5.10)
Shock:	IAW EIA-364-27 & MIL-DTL-55302 (par. 4.5.14)
Salt Spray:	IAW EIA-364-26 & MIL-DTL-55302 (par. 4.5.11)
Temperature Cycling:	IAW EIA-364-32 & MIL-DTL-55302 (par. 4.5.13)
DIMENSIONS:	Catalog product dimensions are nominal. For linear and positional tolerances, contact factory.
	For micar and positional tolerances, contact factory.

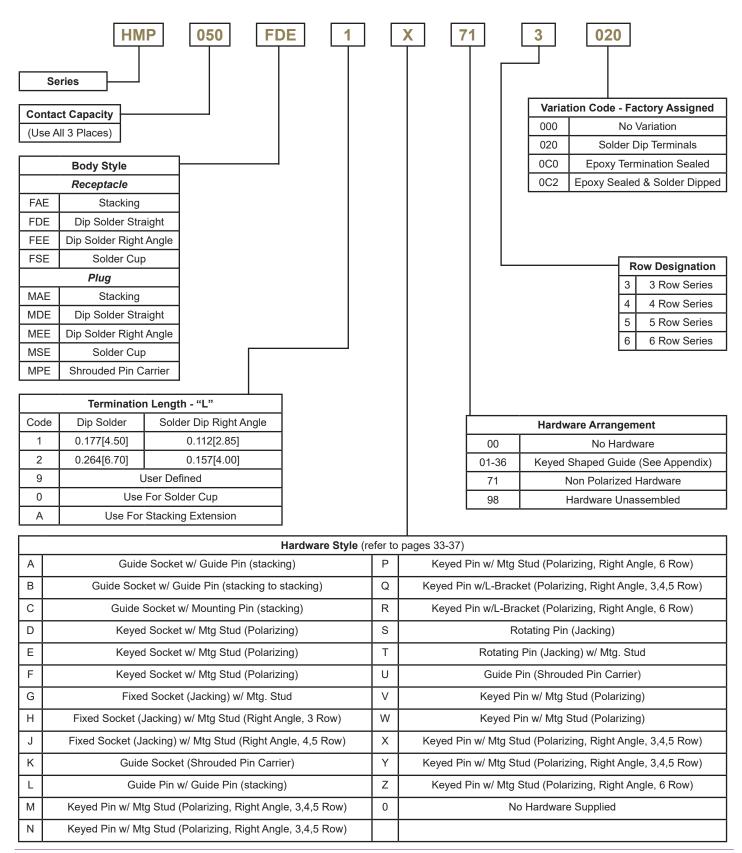
\* Ampacity ratings shown are derated in accordance with the published military specifications. For stand-alone, full service ratings, supported by test data, please refer to IEH's Contacts Catalog, or contact the factory.

All information contained herein is believed to be reliable as of the date of publication, but is subject to change without notice. Current product drawings and specifications are available upon request from IEH.

IEH warrants its products to be free of defects affecting normal use. If any shipment is found to be defective we will accept return for repair or replacement at our option within one year of shipment. IEH is not responsible for incidental or consequential damages arising out of the use of our products.

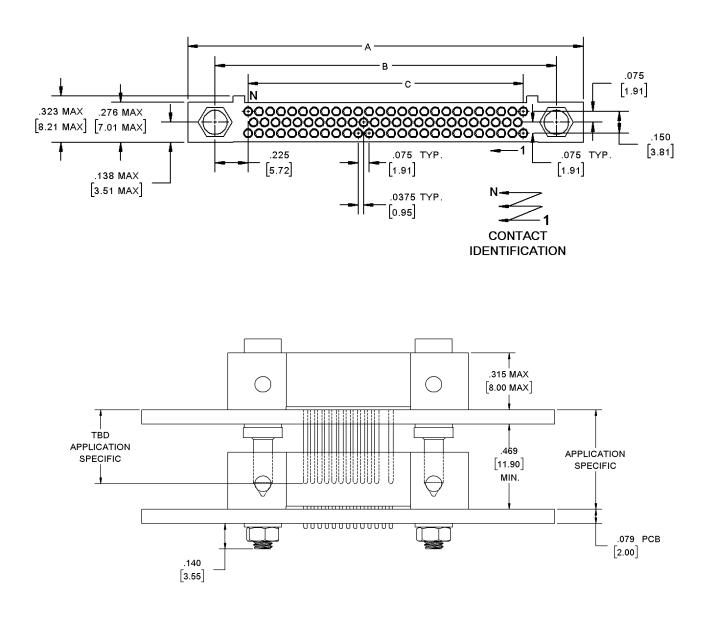


### ORDERING CHART





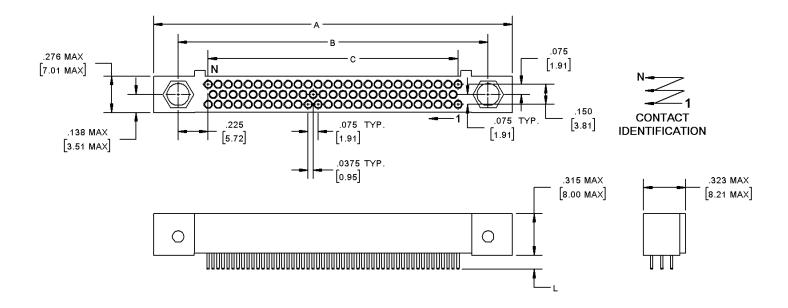
#### RECEPTACLE, STACKING STYLE FAE9



No. of Contacts	A MAX	В	С		
20	1.267 [32.18]	0.900 [22.86]	0.450 [11.43]		
50	50 2.017 [51.23] 1.650 [41.91] 1.200 [30				
77	2.692 [68.38] 2.325 [59.06] 1.875 [47				
119	3.742 [95.05]	3.375 [85.73]	2.925 [74.26]		
152	4.586 [116.48] 4.200 [106.68] 3.750 [95.2				



### RECEPTACLE, STRAIGHT STYLE FDE, FSE

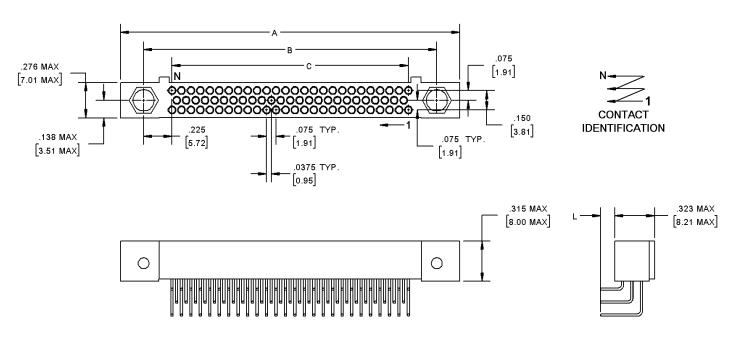


#### FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5

No. of Contacts	A MAX	В	С		
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50	50 2.017 [51.23] 1.650 [41.91] 1.200				
77	77 2.692 [68.38] 2.325 [59.06]				
119	119 3.742 [95.05] 3.375 [85.73] 2.9				
152					



### RECEPTACLE, RIGHT ANGLE STYLE FEE

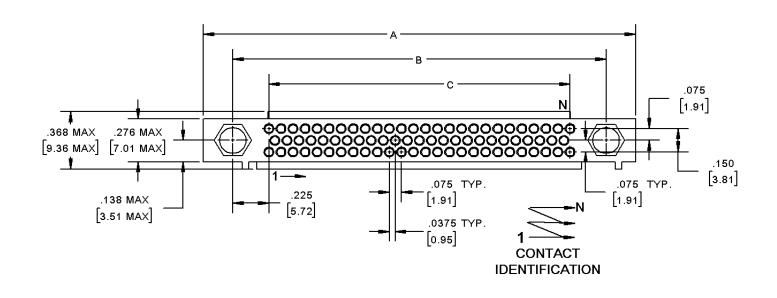


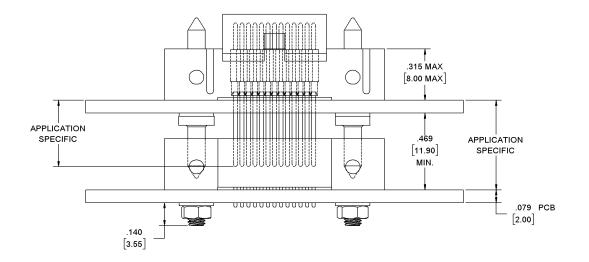
FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5

No. of Contacts	A MAX	В	С		
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119	3.742 [95.05]	3.375 [85.73]	2.925 [74.26]		
152	4.586 [116.48] 4.200 [106.68] 3.750 [95				



### RECEPTACLE, STACKING STYLE MAE9

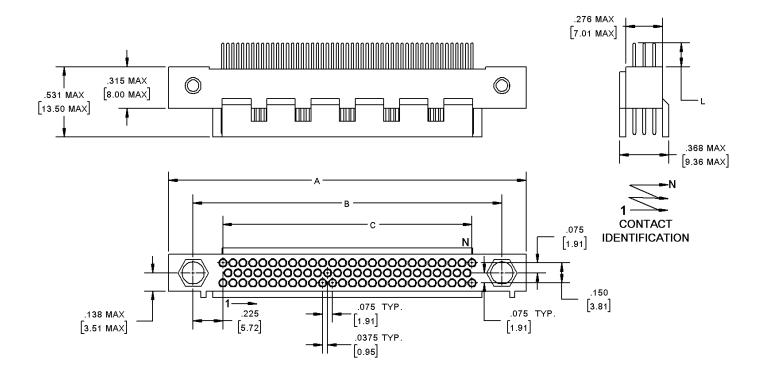




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50	50 2.017 [51.23] 1.650 [41.91] 1.200 [30				
77	77 2.692 [68.38] 2.325 [59.06] 1.875 [47.				
119	3.742 [95.05]	3.375 [85.73]	2.925 [74.26]		
152	4.586 [116.48] 4.200 [106.68] 3.750 [95.24				



### PLUG, STRAIGHT STYLE MDE, MSE

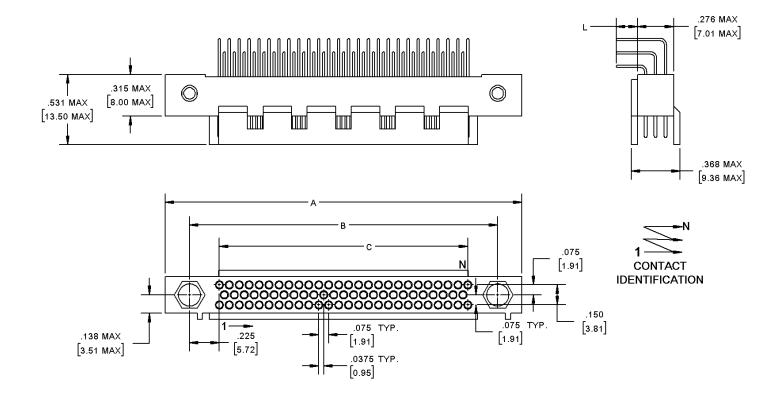


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No. of Contacts	A MAX	В	С		
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77	77 2.692 [68.38] 2.325 [59.06] 1.875 [				
119	119 3.742 [95.05] 3.375 [85.73] 2.925 [				
152					



### PLUG, RIGHT ANGLE STYLE MEE

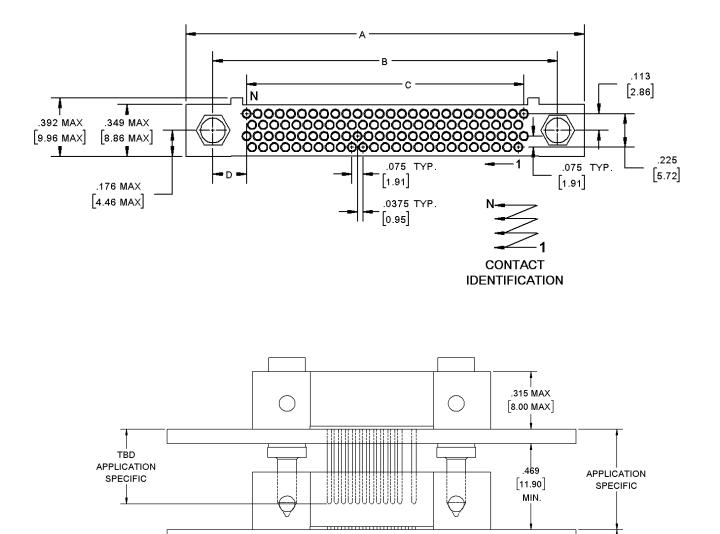


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119	3.742 [95.05]	3.375 [85.73]	2.925 [74.26]		
152	2 4.586 [116.48] 4.200 [106.68] 3.750 [95				







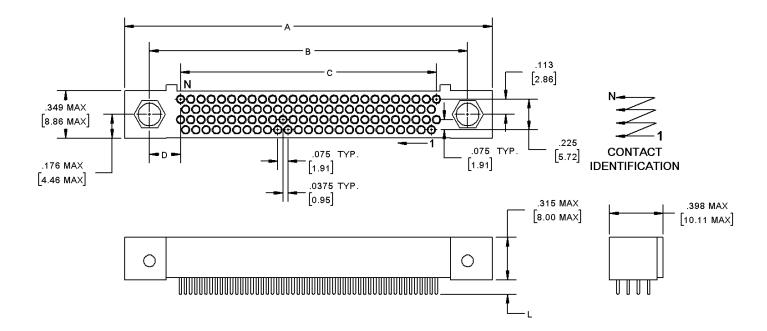
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No. of Contacts	A MAX	В	С	D	*REFER
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202	4.567 [116.00]	4.200 [106.68]	3.750 [95.25]	.225 [5.72]	IZATIO





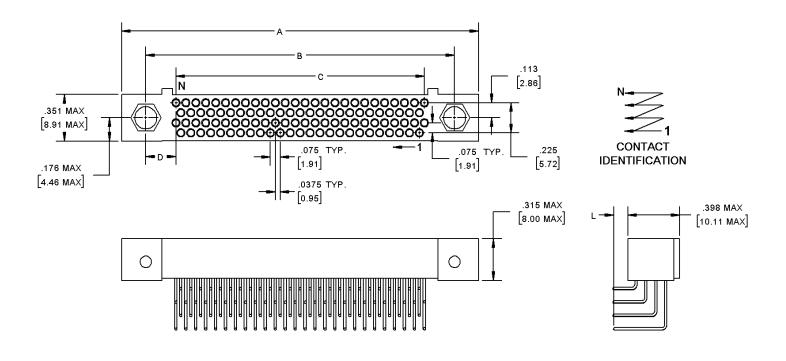


FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5

REFER TO APPENDIX FOR TERMINATION	D	С	В	ΑΜΑΧ	No. of Contacts
DETAILS, HARDWARE STYLES, POLAR-	.228 [5.78]	1.875 [47.625]	2.330 [59.18]	2.697 [68.50]	102
IZATION CHART, AND PWB PATTERNS	.225 [5.72]	3.750 [95.25]	4.200 [106.68]	4.567 [116.00]	202



### **RECEPTACLE, RIGHT ANGLE STYLE FEE**

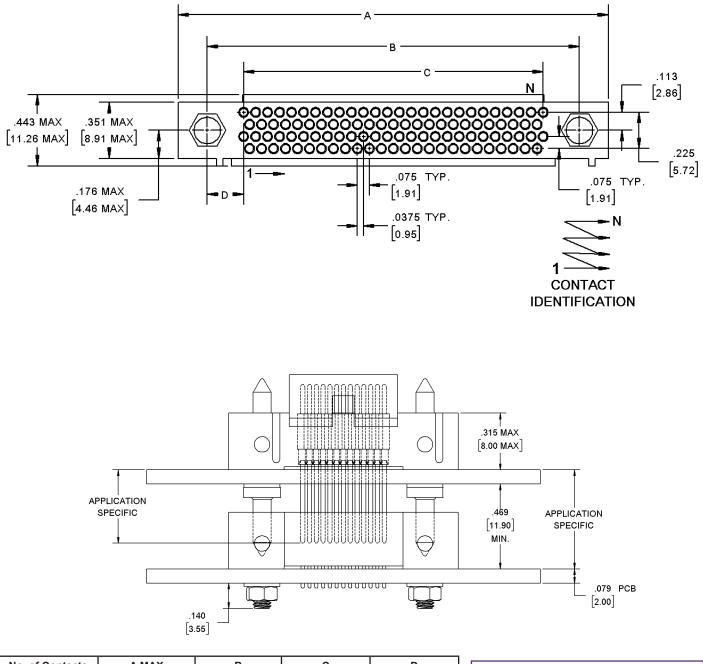


#### FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5

D *REFER TO APPENDIX FOR TERMINATION	С	В	A MAX	No. of Contacts
	3] 1.875 [47.625]	2.330 [59.18]	2.697 [68.50]	102
5.25] .225 [5.72] IZATION CHART, AND PWB PATTERNS	8] 3.750 [95.25]	4.200 [106.68]	4.567 [116.00]	202



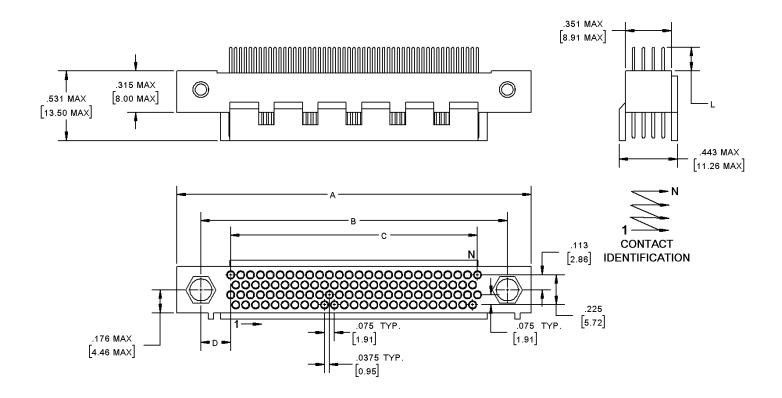
### PLUG, STACKING STYLE MAE9



*REFER TO APPENDIX FOR TERMINATION	D	С	В	A MAX	No. of Contacts
DETAILS, HARDWARE STYLES, POLAR-	.228 [5.78]	1.875 [47.625]	2.330 [59.18]	2.697 [68.50]	102
IZATION CHART, AND PWB PATTERNS	.225 [5.72]	3.750 [95.25]	4.200 [106.68]	4.567 [116.00]	202



### PLUG, STRAIGHT STYLE MDE, MSE

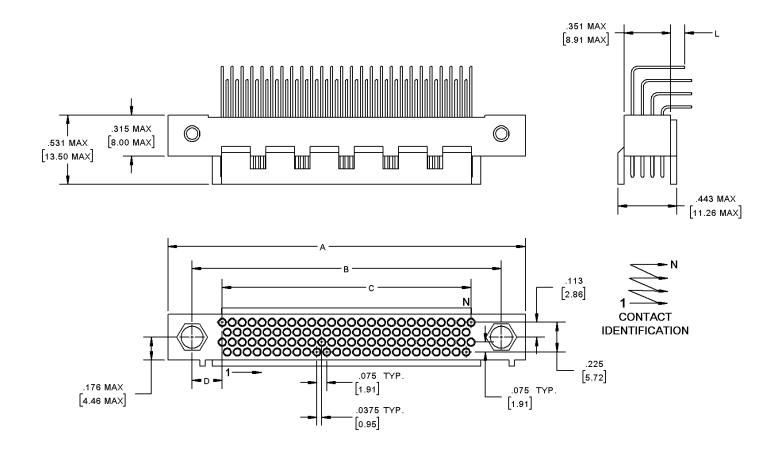


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REFER TO APPENDIX FOR TERMINATION	D	С	В	A MAX	No. of Contacts
DETAILS, HARDWARE STYLES, POLAR-	.228 [5.78]	1.875 [47.625]	2.330 [59.18]	2.697 [68.50]	102
IZATION CHART, AND PWB PATTERNS	.225 [5.72]	3.750 [95.25]	4.200 [106.68]	4.567 [116.00]	202



### PLUG, RIGHT ANGLE STYLE MEE

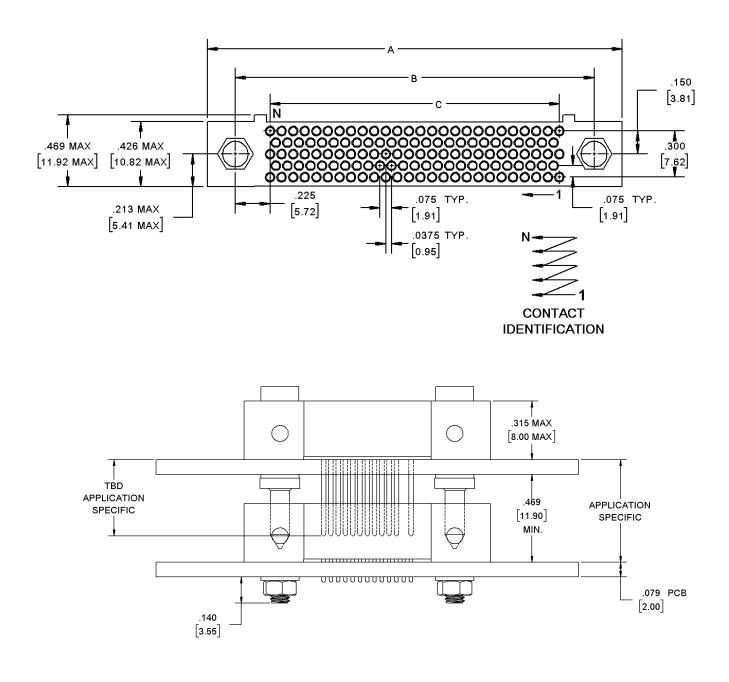


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*REFER TO APPENDIX FOR TERMINATION	D	С	В	A MAX	No. of Contacts
DETAILS, HARDWARE STYLES, POLAR-	.228 [5.78]	1.875 [47.625]	2.330 [59.18]	2.697 [68.50]	102
IZATION CHART, AND PWB PATTERNS	.225 [5.72]	3.750 [95.25]	4.200 [106.68]	4.567 [116.00]	202



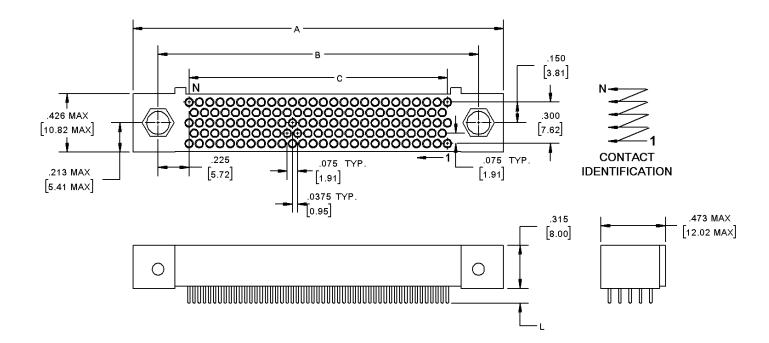
### RECEPTACLE, STACKING STYLE FAE9



No. of Contacts	A MAX	В	С
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253	4.567 [116.00]	4.200 [106.68]	3.750 [95.25]



### RECEPTACLE, STRAIGHT STYLE FDE, FSE

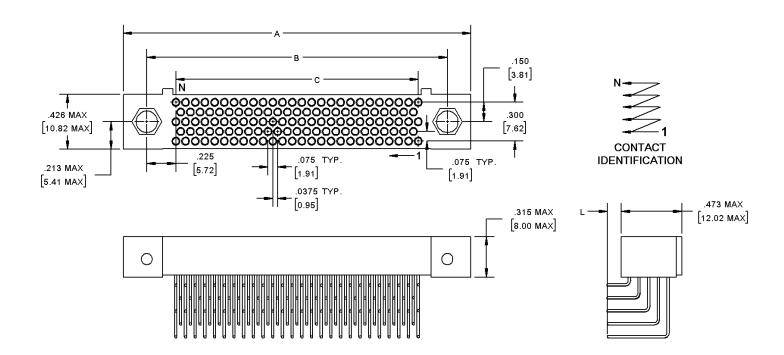


FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5

No. of Contacts	A MAX	В	С
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253	4.567 [116.00]	4.200 [106.68]	3.750 [95.25]



### RECEPTACLE, RIGHT ANGLE STYLE FEE

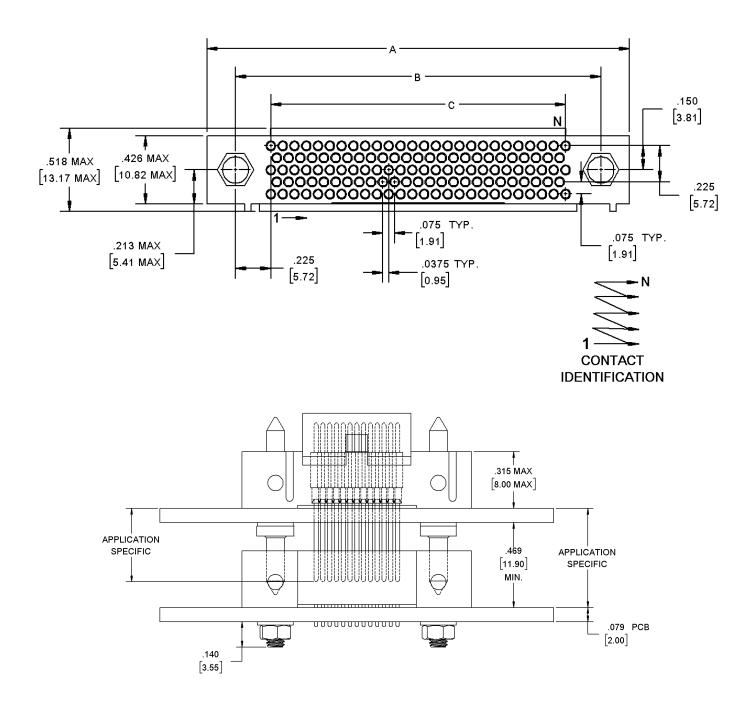


#### FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5

No. of Contacts	A MAX	В	С
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253	4.567 [116.00]	4.200 [106.68]	3.750 [95.25]



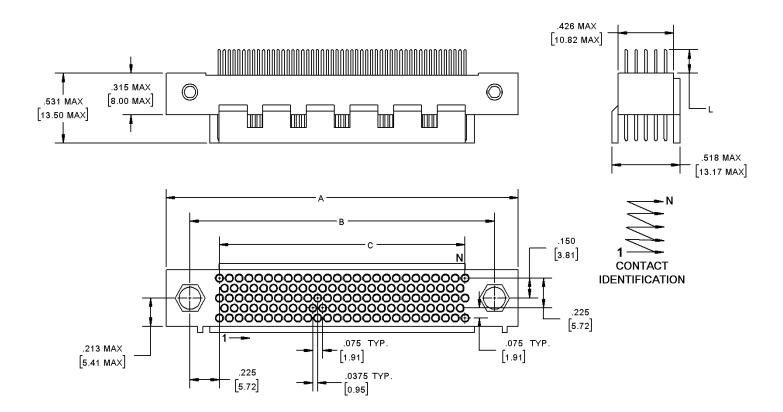
## PLUG, STACKING STYLE MAE9



No. of Contacts	A MAX	В	С
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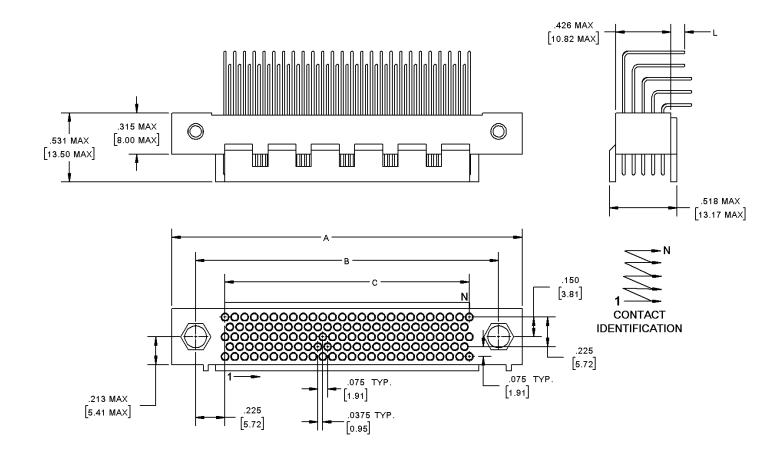
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No. of Contacts	A MAX	В	С
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253	4.567 [116.00]	4.200 [106.68]	3.750 [95.25]

<b>*REFER TO APPENDIX FOR TERMINATION</b>
DETAILS, HARDWARE STYLES, POLAR-
IZATION CHART, AND PWB PATTERNS



### PLUG, RIGHT ANGLE STYLE MEE

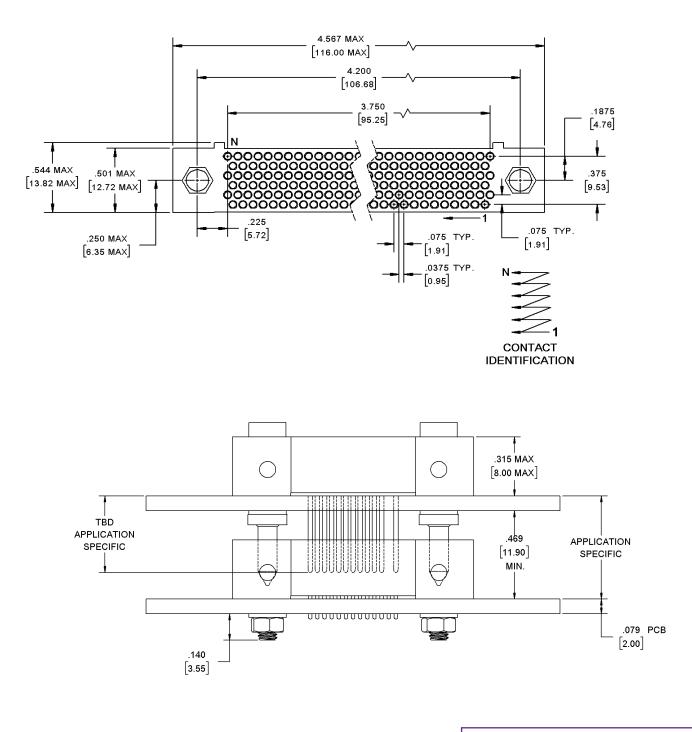


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No. of Contacts	A MAX	В	С
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253	4.567 [116.00]	4.200 [106.68]	3.750 [95.25]

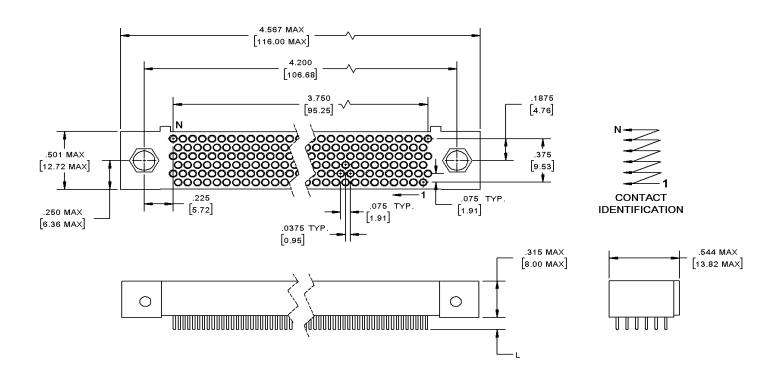


### RECEPTACLE, STACKING 303 STYLE FAE9





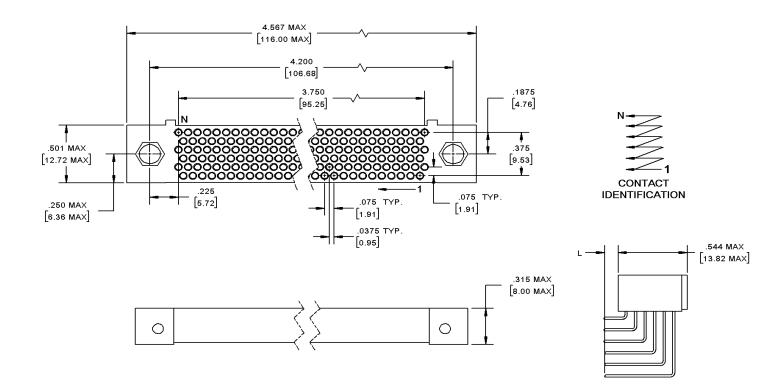
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FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5



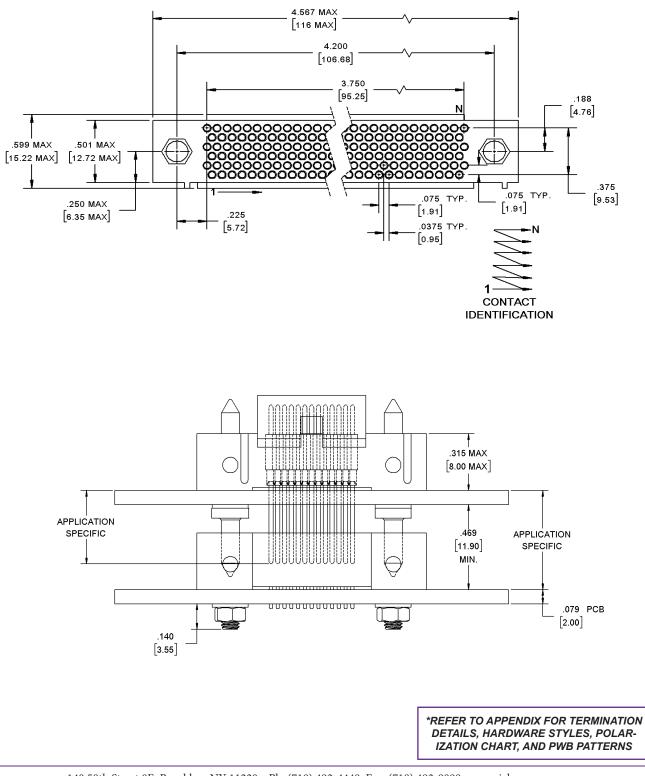
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FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5

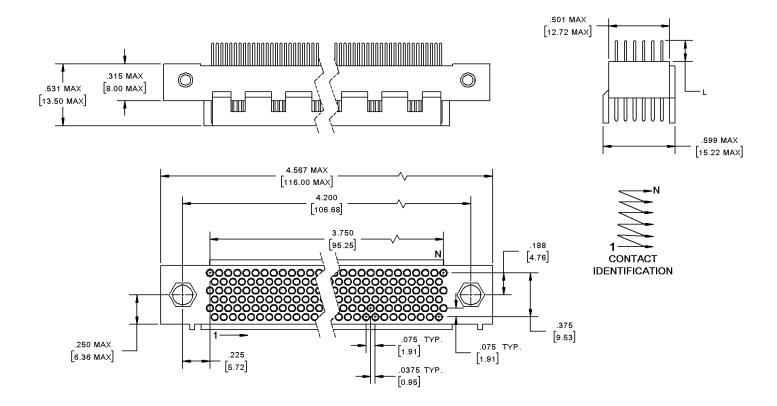


### PLUG STACKING 303 STYLE MAE9





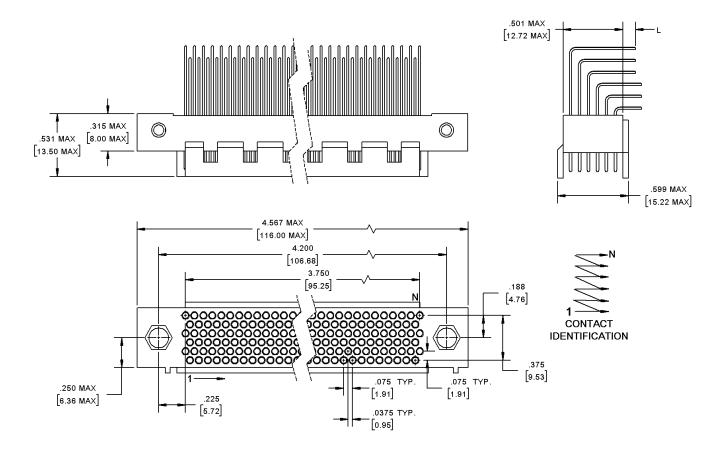
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FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5



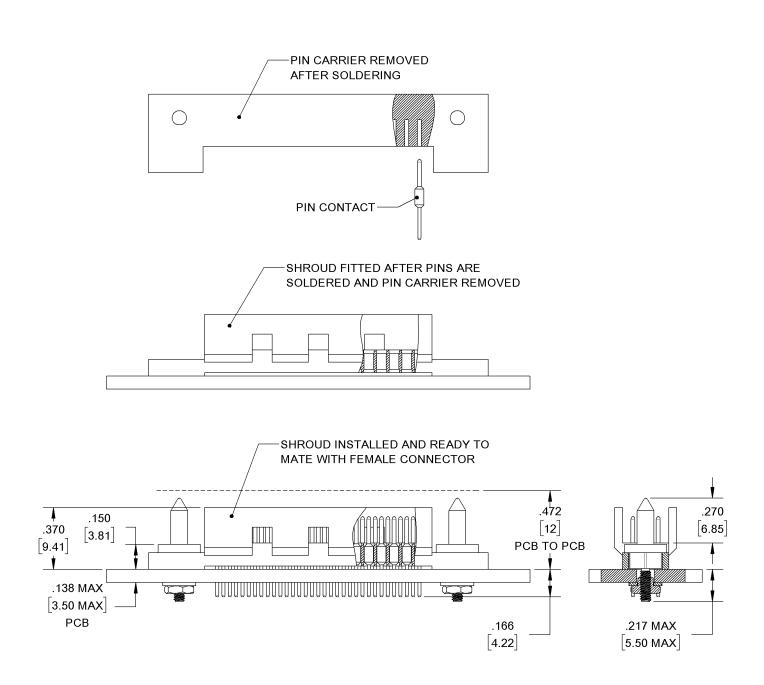
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FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5

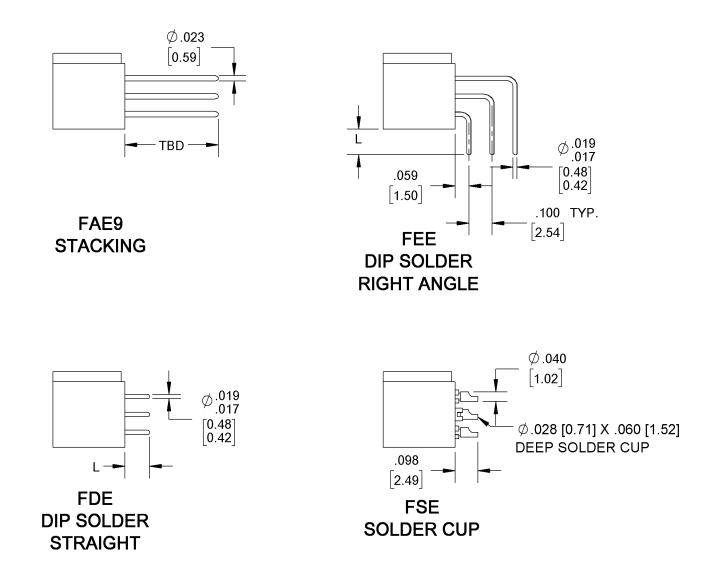


### PLUG, PIN CARRIER, SHROUD STYLE MPE





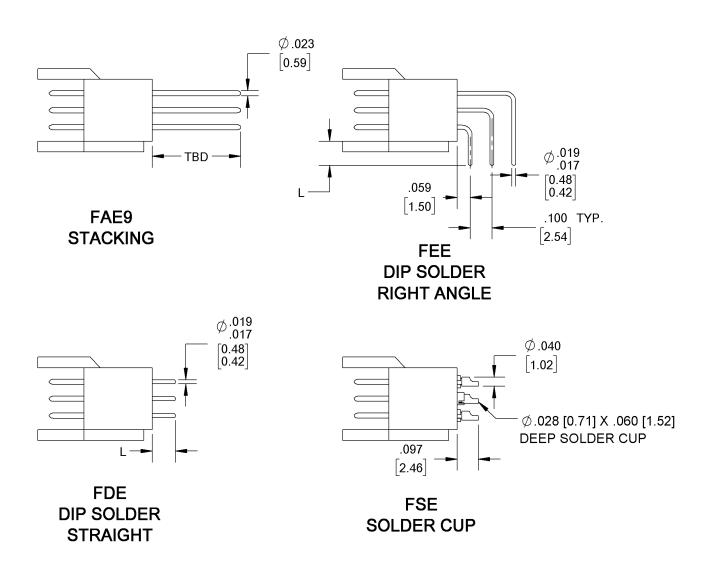




FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5



#### TERMINATION STYLES PLUG HARDWARE OMITTED FOR CLARITY

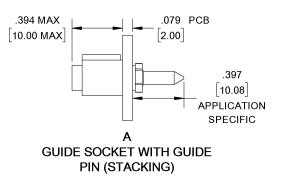


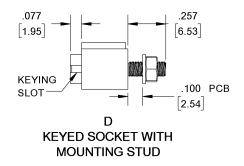
#### FOR DIMENSION "L" SEE TERMINATION LENGTH ON PAGE #5

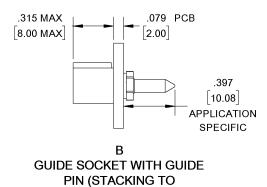




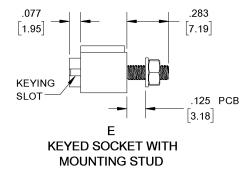
# HARDWARE STYLES GUIDE SOCKETS

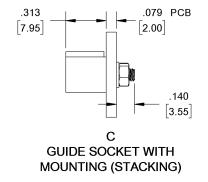


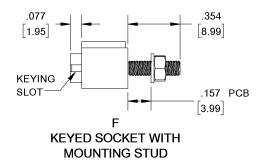




STACKING)

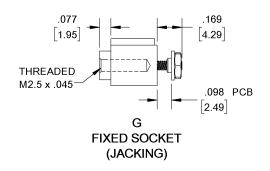


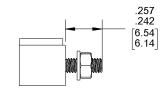




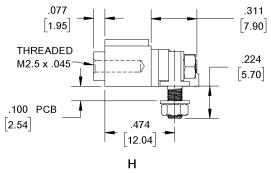


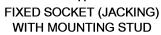
## HARDWARE STYLES GUIDE SOCKETS

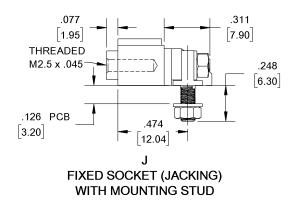




K GUIDE SOCKET (SHROUDED PIN CARRIER)

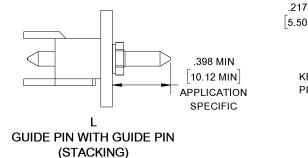


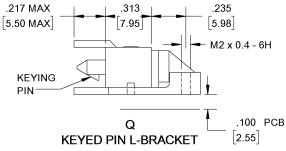


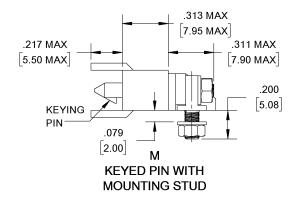


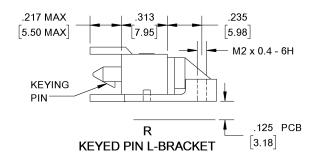


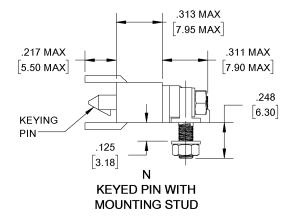
## HARDWARE STYLES GUIDE PINS

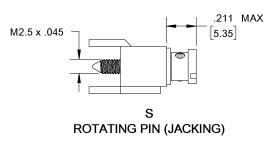






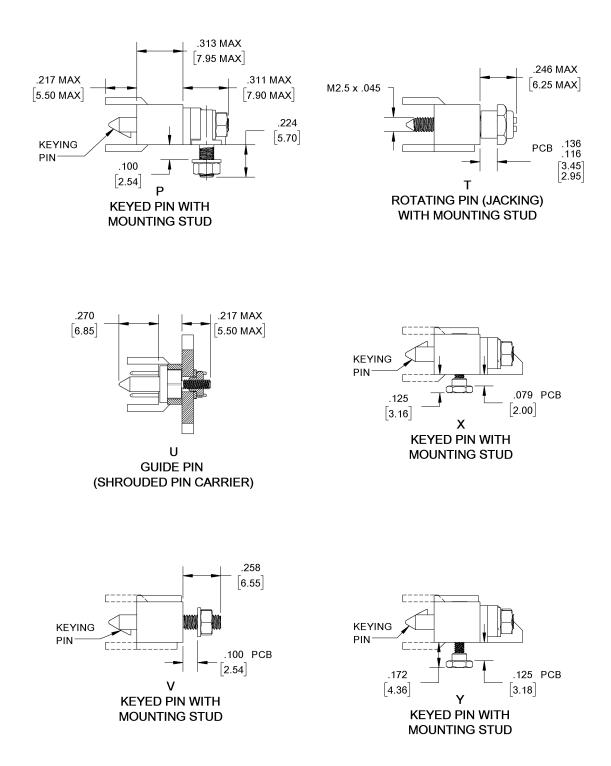






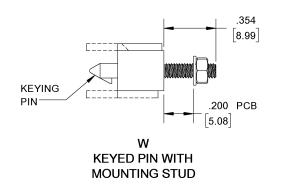


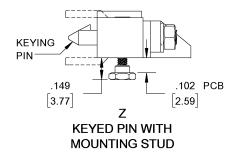
## HARDWARE STYLES GUIDE PINS





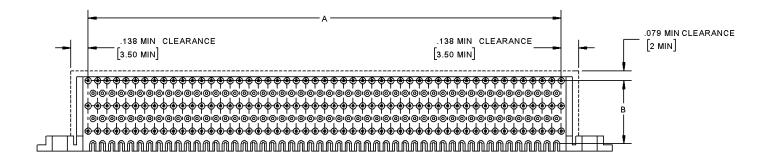
### HARDWARE STYLES GUIDE PINS







## **ALIGNMENT COMBS** FOR ALL RIGHT ANGLE BODY STYLES

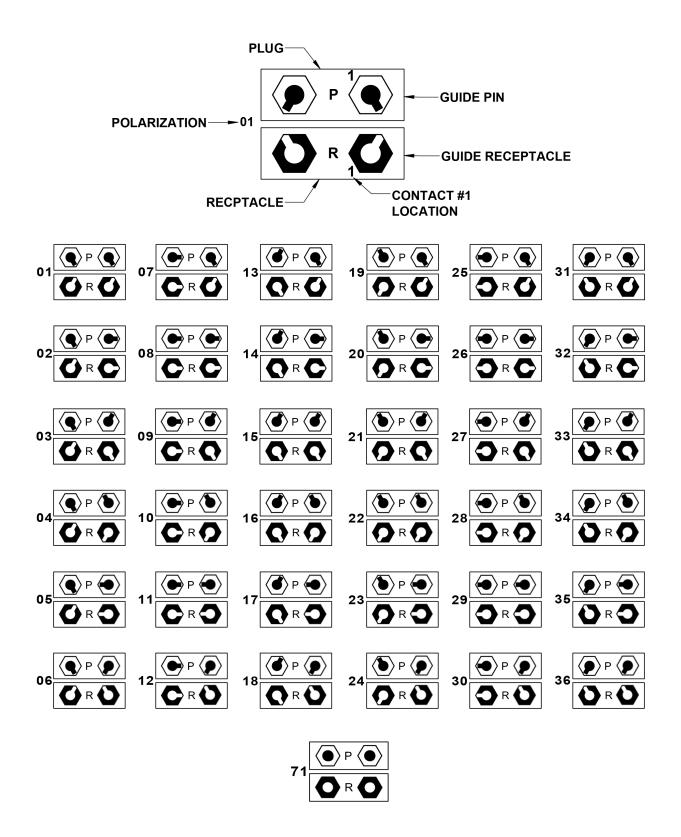


### MAINTAIN CLEARANCES SHOWN FOR ALL RIGHT ANGLE BODY STYLES TO ALLOW FOR ALIGNMENT COMB (6 row 303 pin comb shown, applies to all right angle styles)

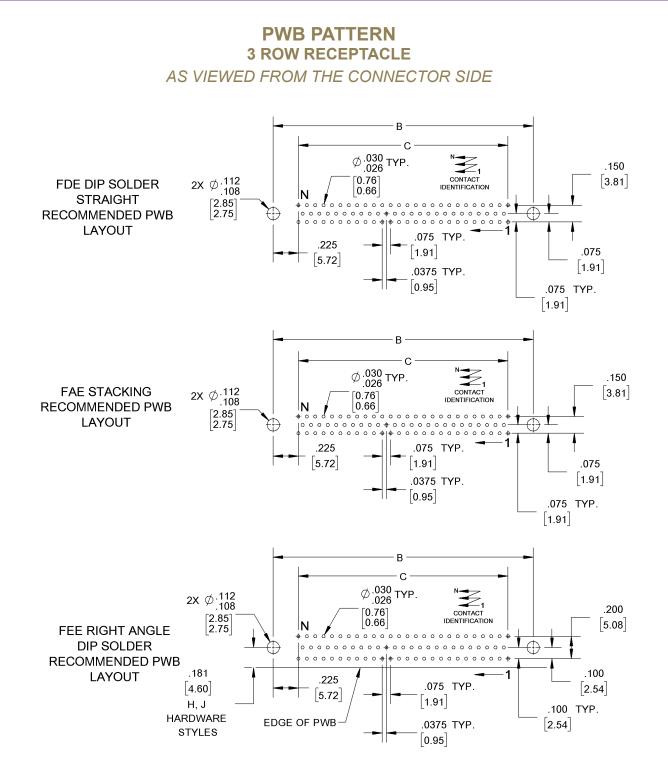
No. of Contacts	A	В
20	0.450 [11.43]	.200 [5.08]
50	1.200 [30.48]	.200 [5.08]
77	1.875 [47.63]	.200 [5.08]
102	1.875 [47.625]	.225 [5.72]
119	2.925 [74.26]	.200 [5.08]
128	1.875 [47.625]	.400 [10.16]
152	3.750 [95.25]	.200 [5.08]
202	3.750 [95.25]	.225 [5.72]
253	3.750 [95.25]	.400 [10.16]
303	3.750 [95.25]	.501 [12.72]



## **POLARIZATION CHART** AS VIEWED FROM THE MATING FACE



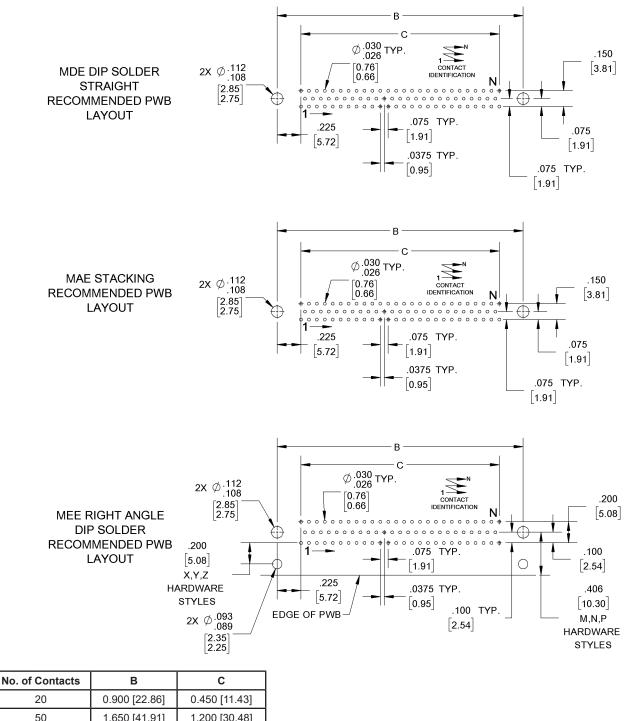




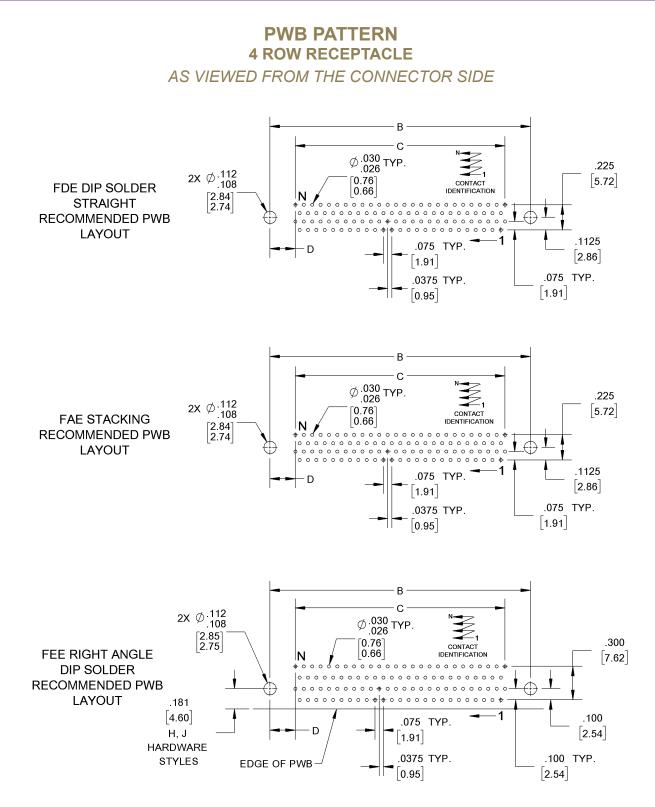
No. of Contacts	В	С
20	0.900 [22.86]	0.450 [11.43]
50	1.650 [41.91]	1.200 [30.48]
77	2.325 [59.06]	1.875 [47.63]
119	3.375 [85.73]	2.925 [74.26]
152	4.200 [106.68]	3.750 [95.25]





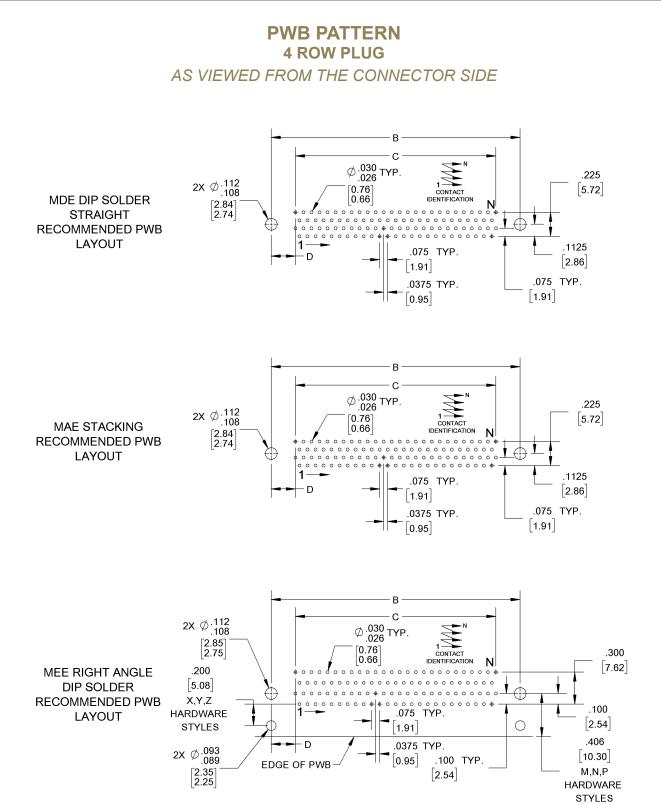






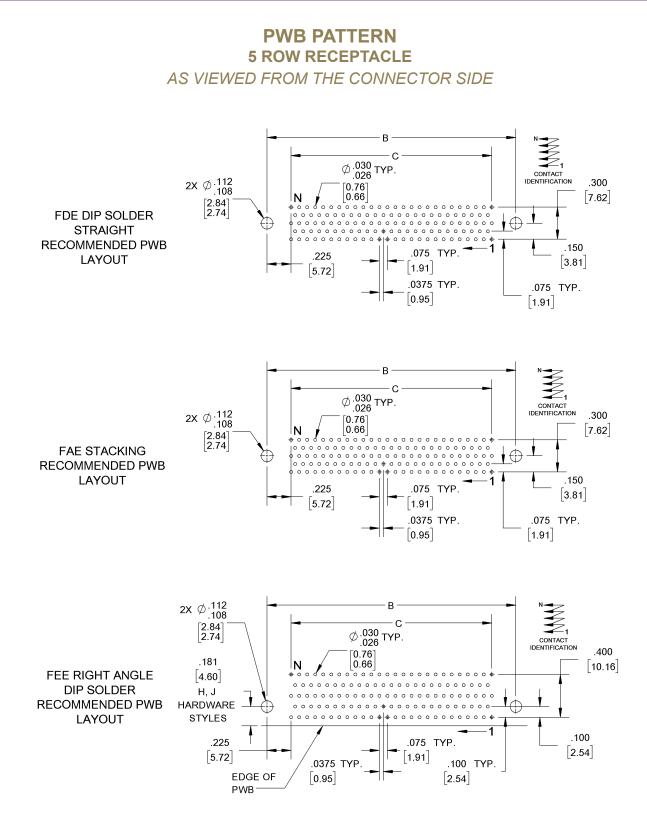
No. of Contacts	В	С	D
102	2.330 [59.18]	1.875 [47.625]	.228 [5.78]
202	4.200 [106.68]	3.750 [95.25]	.225 [5.72]





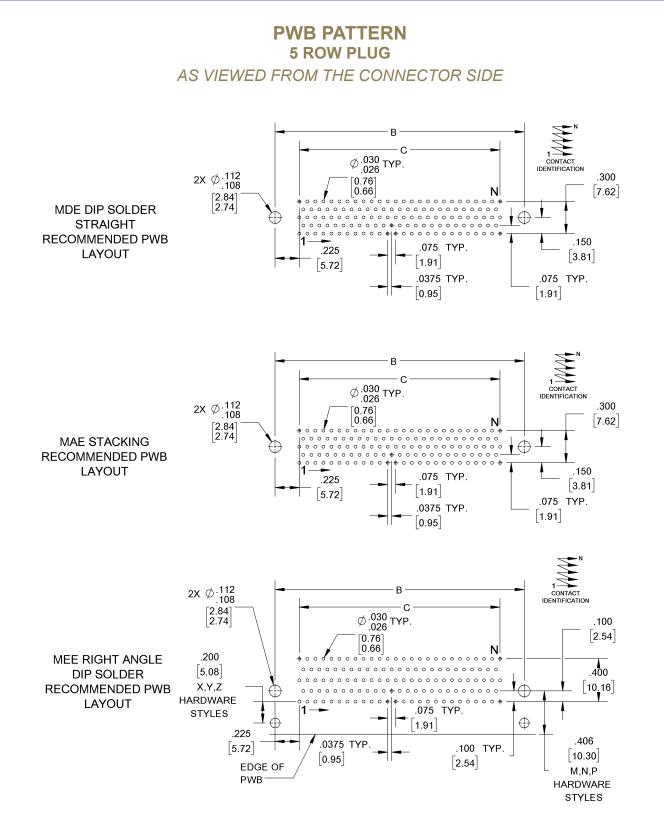
No. of Contacts	В	С	D
102	2.330 [59.18]	1.875 [47.625]	.228 [5.78]
202	4.200 [106.68]	3.750 [95.25]	.225 [5.72]





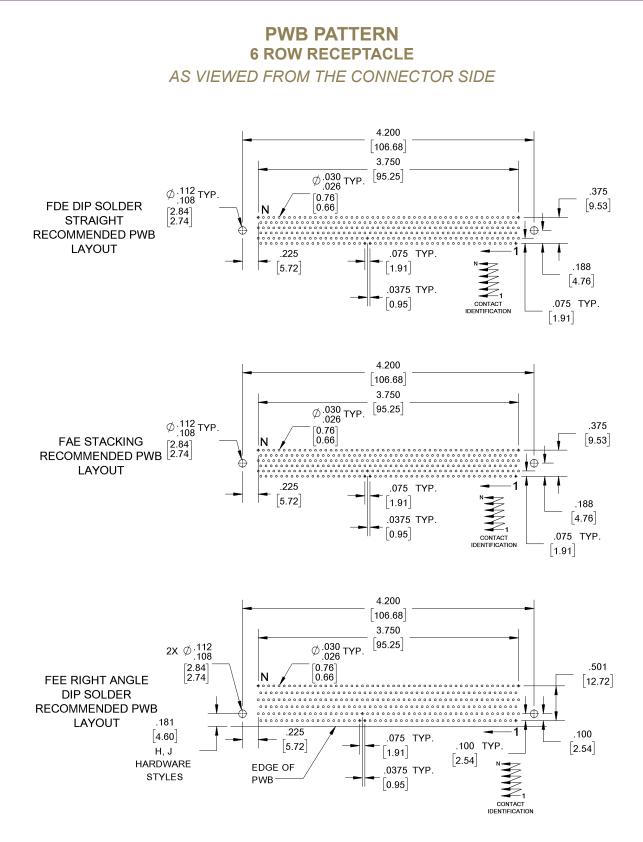
No. of Contacts	В	С
128	2.322 [58.98]	1.875 [47.625]
253	4.200 [106.68]	3.750 [95.25]





No. of Contacts	В	С
128	2.322 [58.98]	1.875 [47.625]
253	4.200 [106.68]	3.750 [95.25]







#### **PWB PATTERN 6 ROW PLUG** AS VIEWED FROM THE CONNECTOR SIDE 4.200 106.68 3.750 Ø .030 TYP. [0.76] 0.66] 95.25 Ø.112 TYP. .108 TYP. [2.84] 2.74] .375 MDE DIP SOLDER 9.53 N STRAIGHT • **RECOMMENDED PWB** æ LAYOUT .075 TYP. \*\*\*\* .225 [1.91] .188 5.72 4.76 .0375 TYP CONTACT 0.95 .075 TYP. 1.91 4.200 106.68 3.750 Ø.030 TYP. [0.76] [0.66] 95.25 .375 Ø.112 TYP. 9.53 MAE STACKING 2.84 N **RECOMMENDED PWB** $\oplus$ LAYOUT Ф .075 TYP. .225 [1.91] .188 5.72 4.76 .0375 TYP. CONTACT 0.95 .075 TYP. 1.91 4.200 2X Ø 112 108 106.68 2.84 2.74 3.750 $\phi^{.030}_{.026}$ TYP. 95.25 .198 .501 0.76 5.02 [12.72] Ν MEE RIGHT ANGLE X,Y,Z **DIP SOLDER** HARDWARE **RECOMMENDED PWB** ₽⊕ STYLES Φ LAYOUT .100 1- $\oplus$ .075 TYP 2.54 .225 [1.91] .100 TYP. 2x Ø.093 .089 .406 5.72 2.54 .0375 TYP. [10.30] -N 2.35 2.25 EDGE OF 0.95 M,N,P

PWB

 $\geq$  HARDWARE STYLES

# **IEH Quality Statement**

Listening to our customers and meeting their needs while continuously improving our processes and services











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**REV. A**