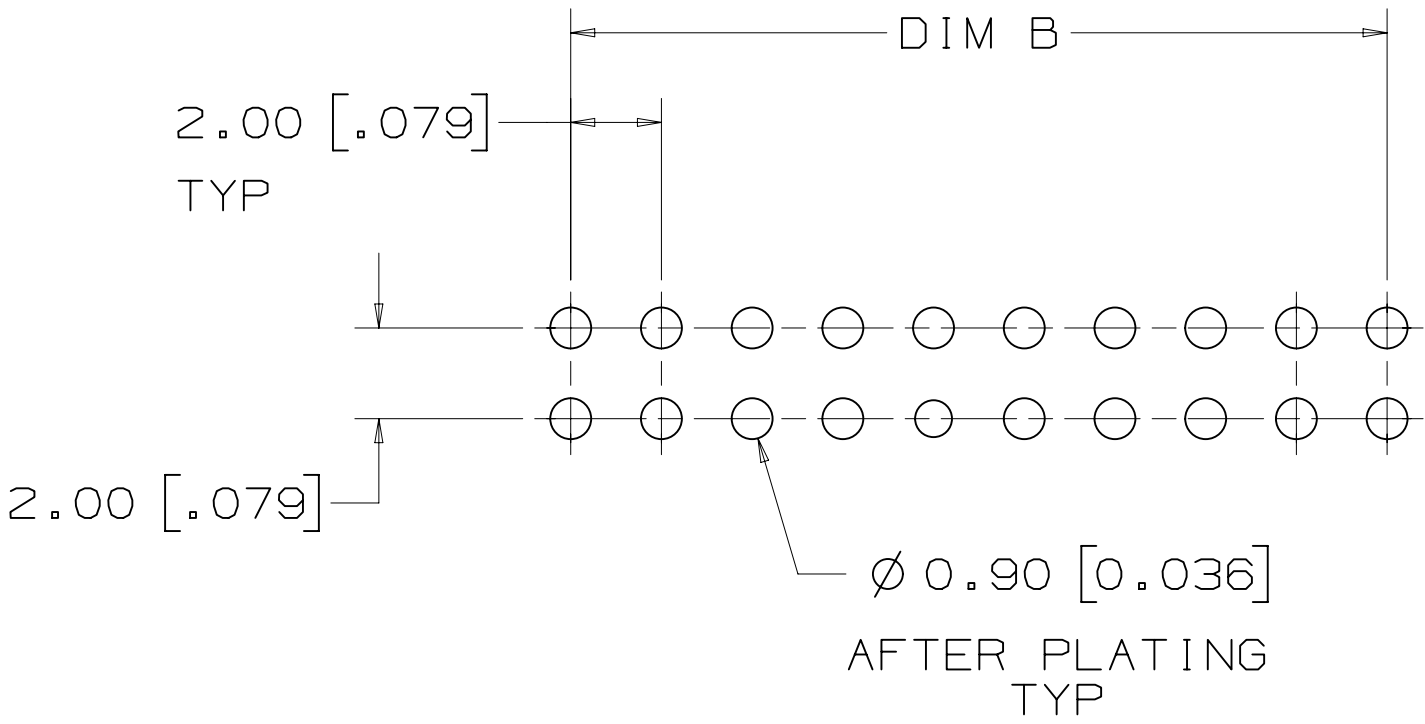
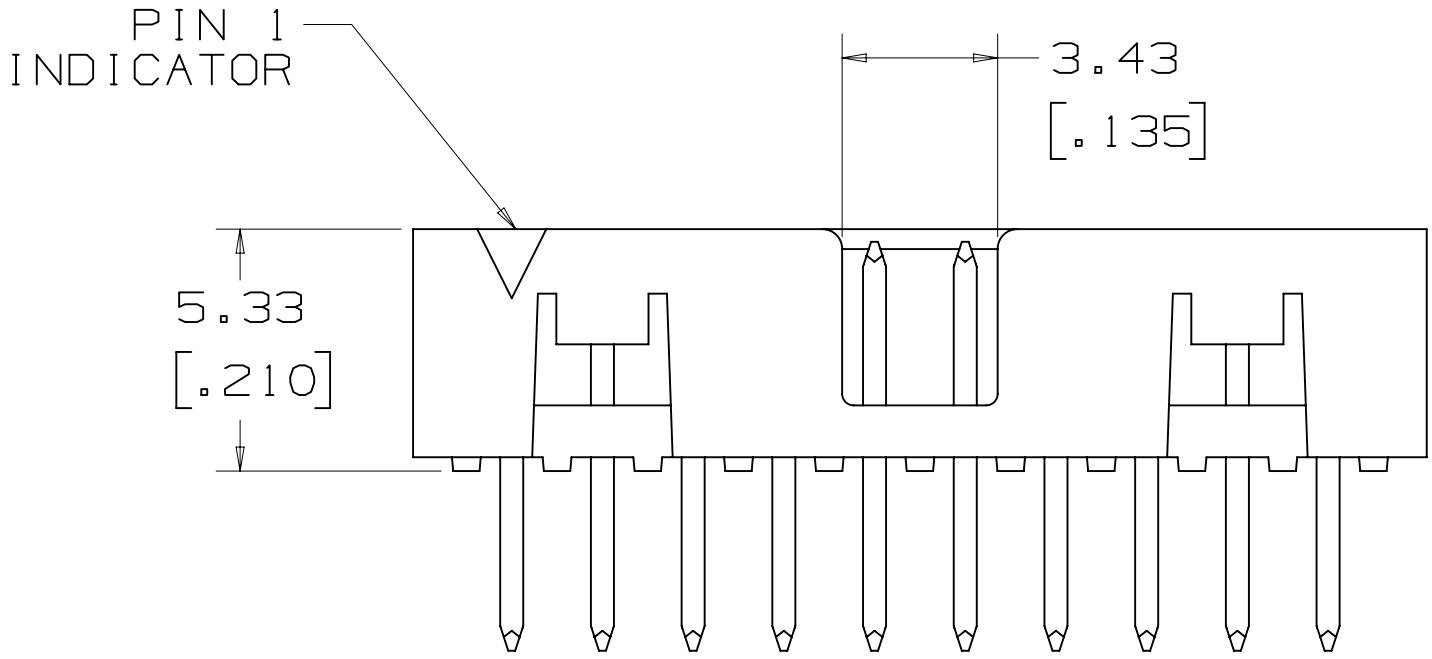
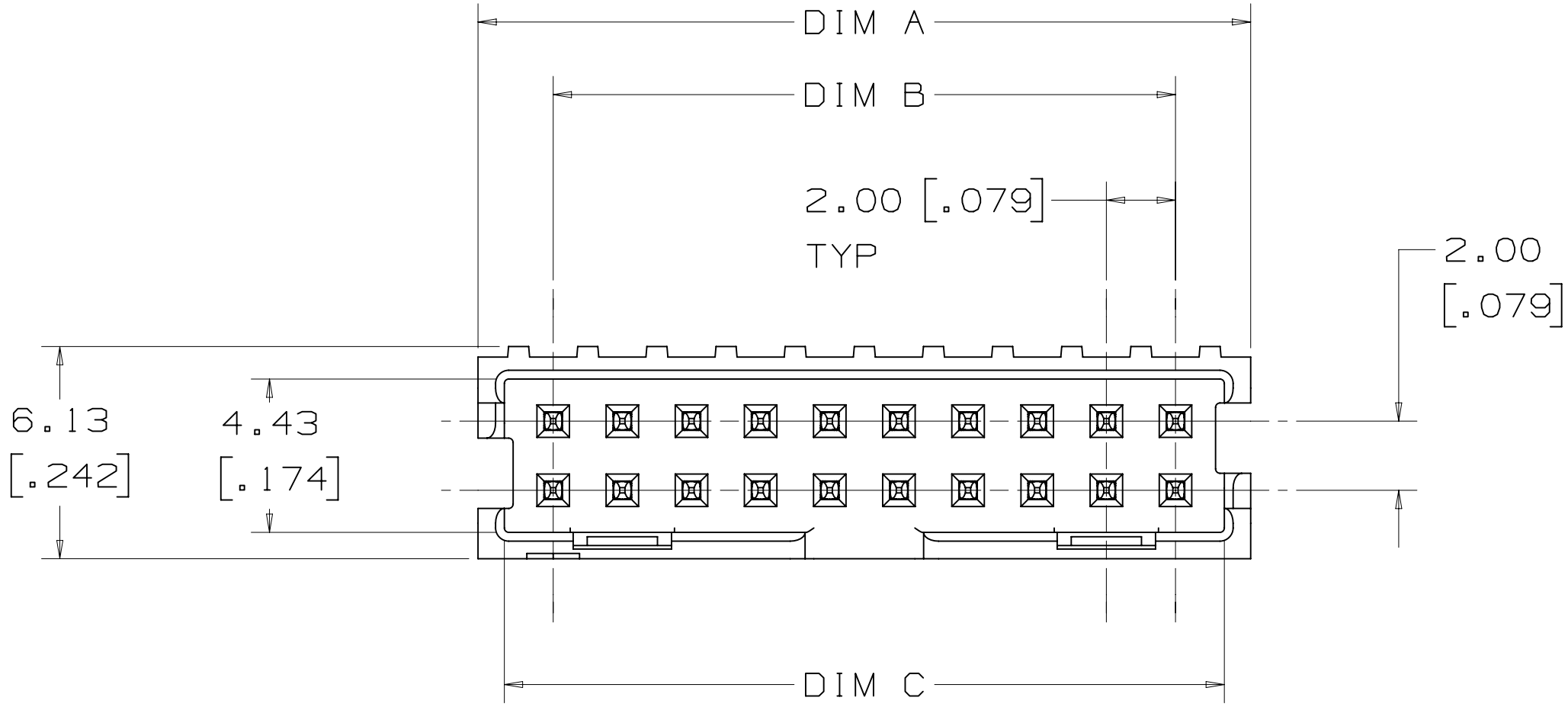
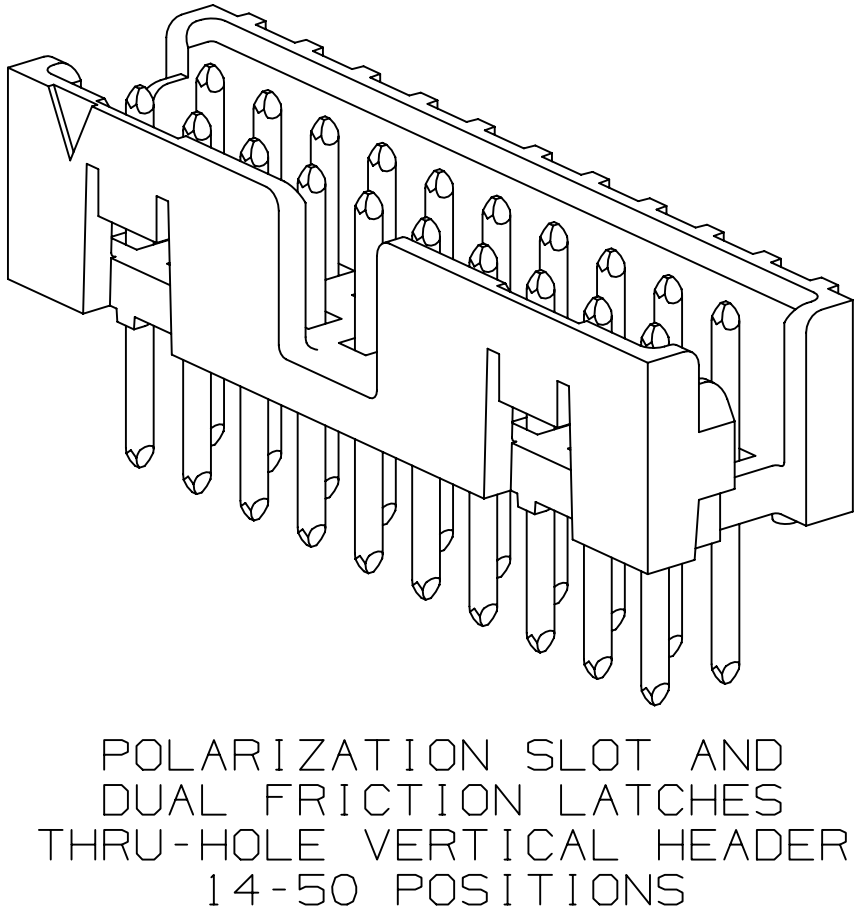
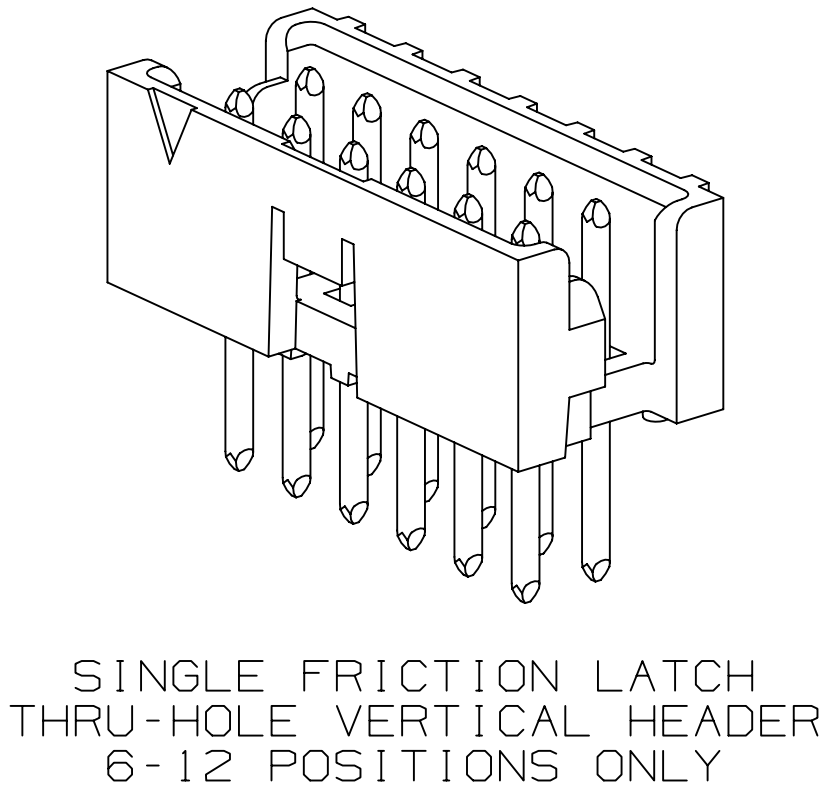
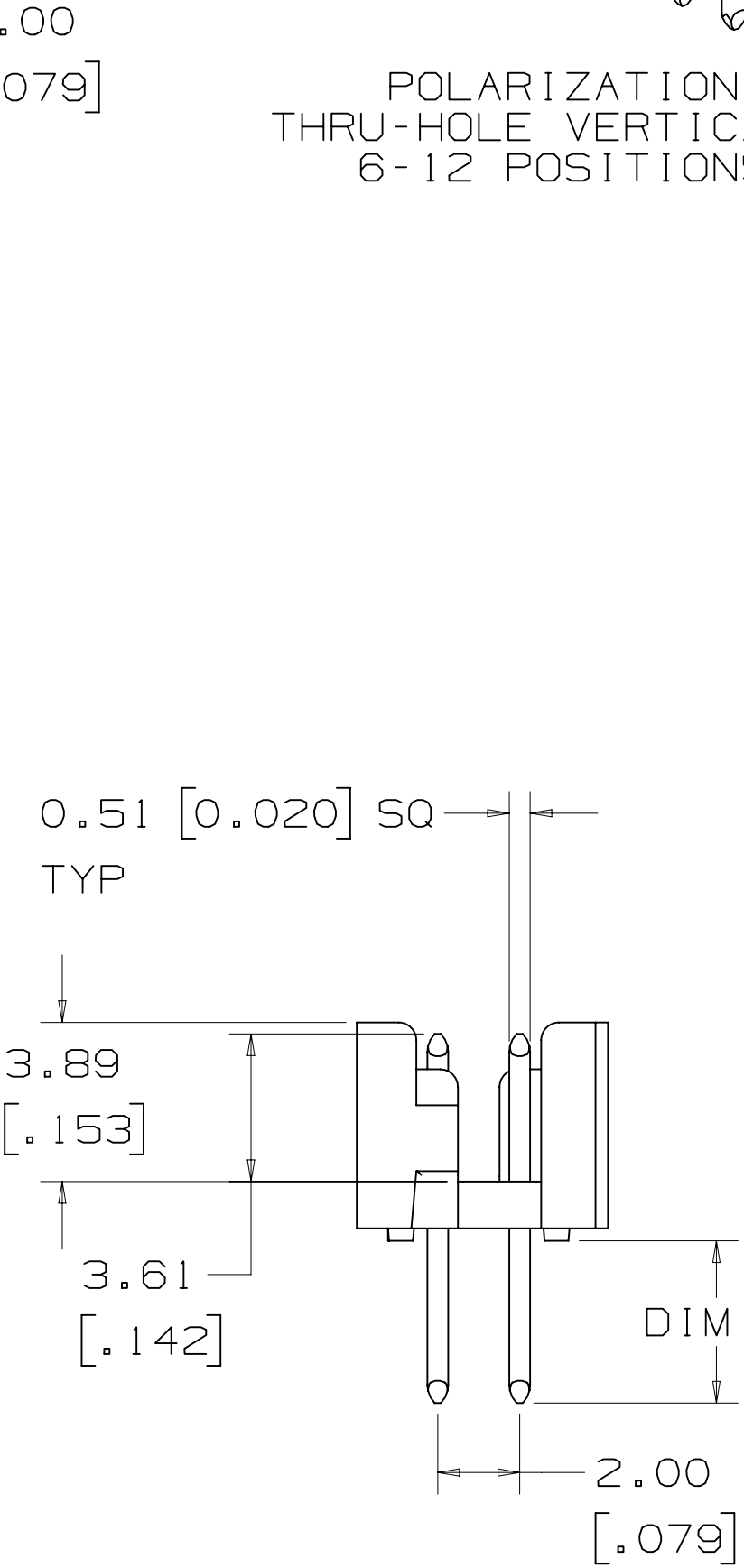
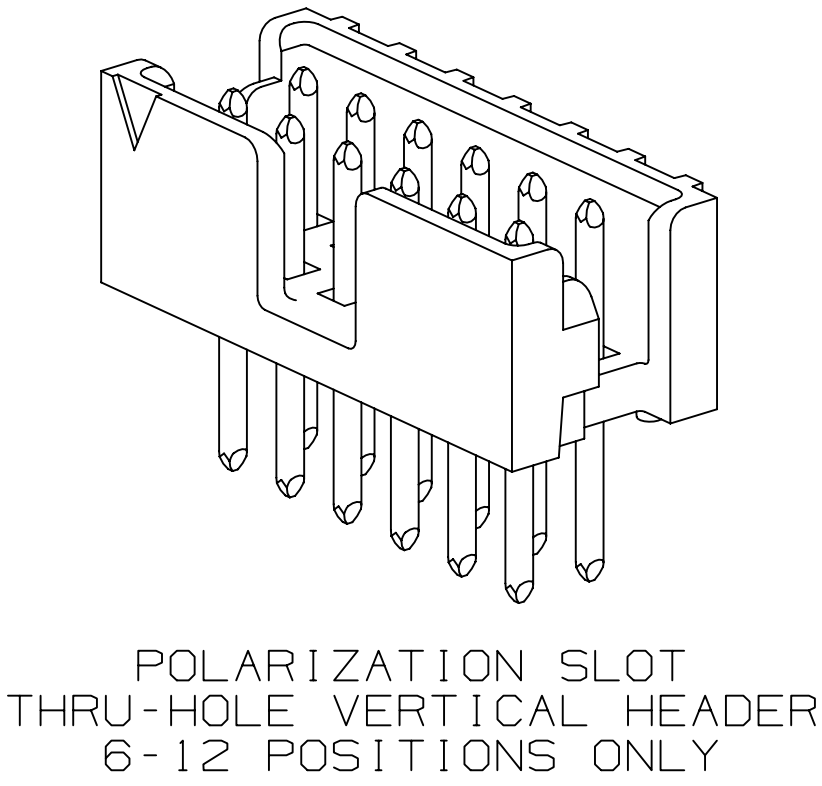


3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length [3] and Extended Length [4]



RECOMMENDED PCB HOLE PATTERN
TOLERANCE = 0.05 [.002]



PERFORMANCE [5] [7]

CURRENT:	1A, 6 LINES ENERGIZED
INSULATION RESISTANCE:	>1 X 10 ⁹ OHMS AT 500 VDC
WITHSTANDING VOLTAGE:	500 VACrms AT SEA LEVEL
TEMPERATURE RATING:	-55° C TO +105° C
SOLDER PROCESS TEMPERATURE:	260° C MAX PER IPC/JEDEC J-STD-020D

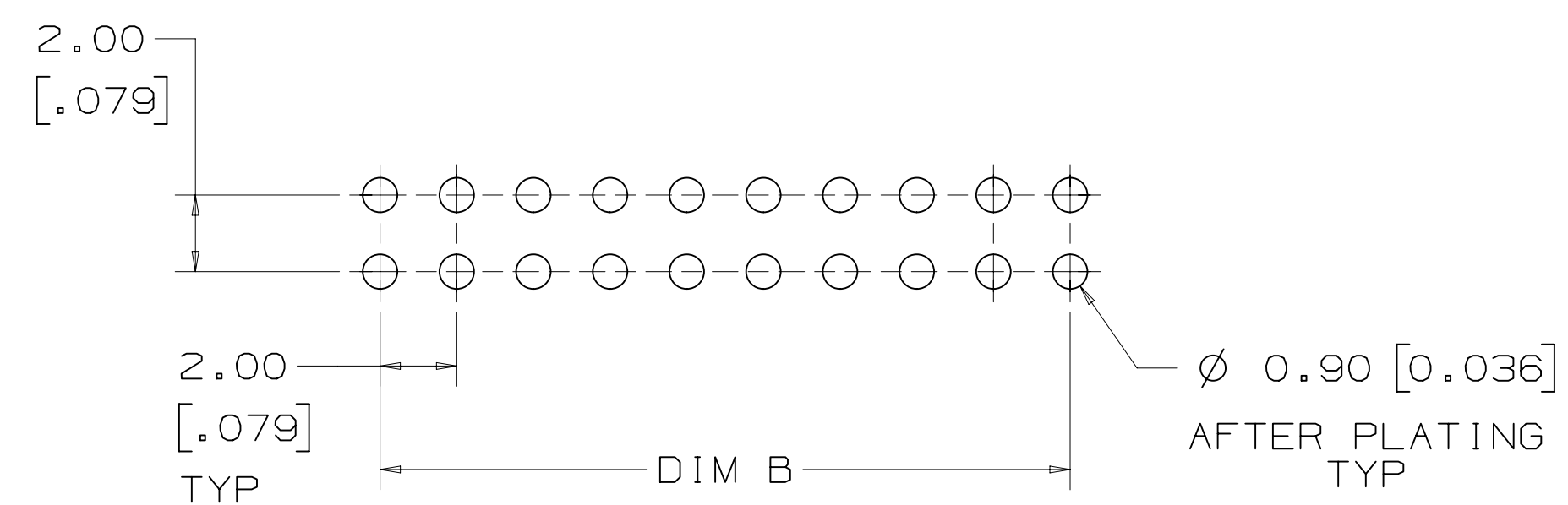
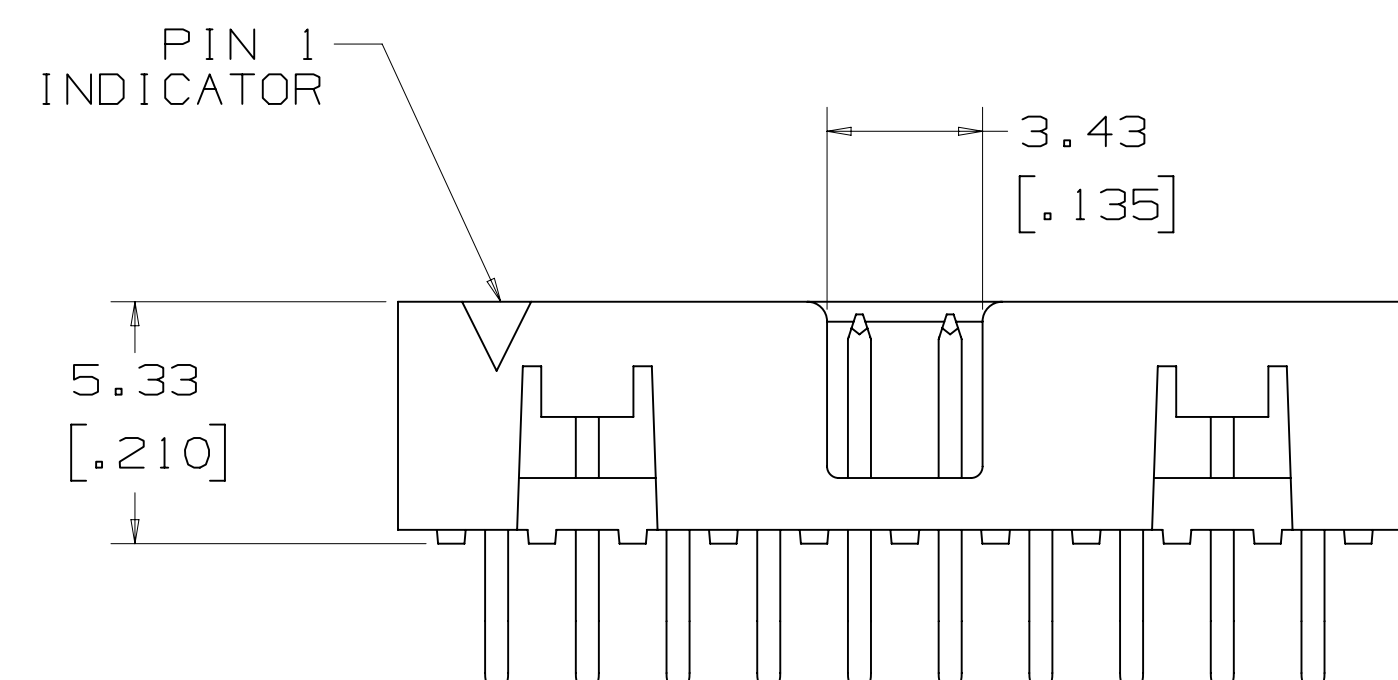
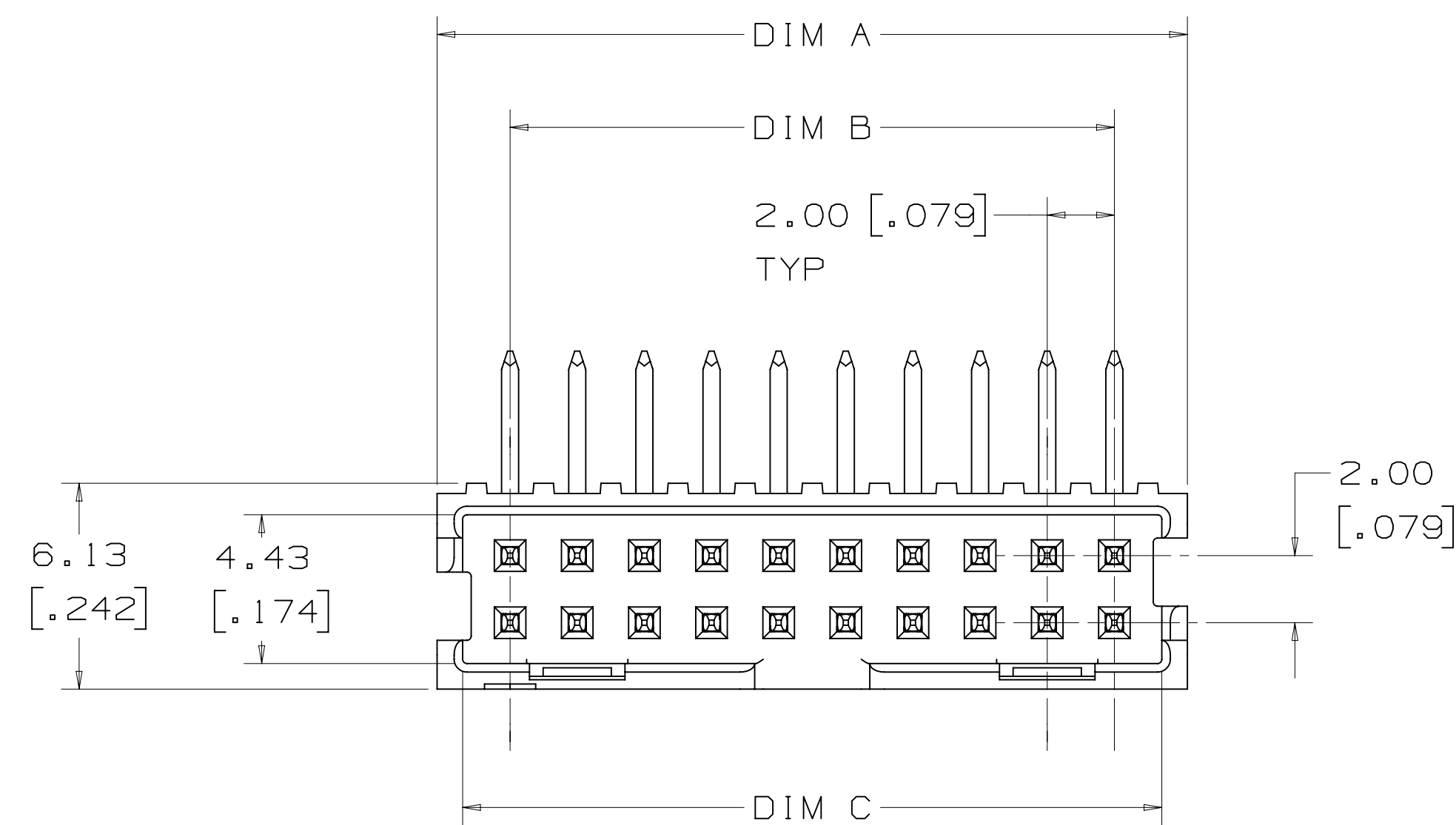
REFERENCE TABLE ON SHEET 4
FOR AVAILABLE POSITIONS AND
SOLDER TAIL LENGTHS

METRIC [ENGLISH]

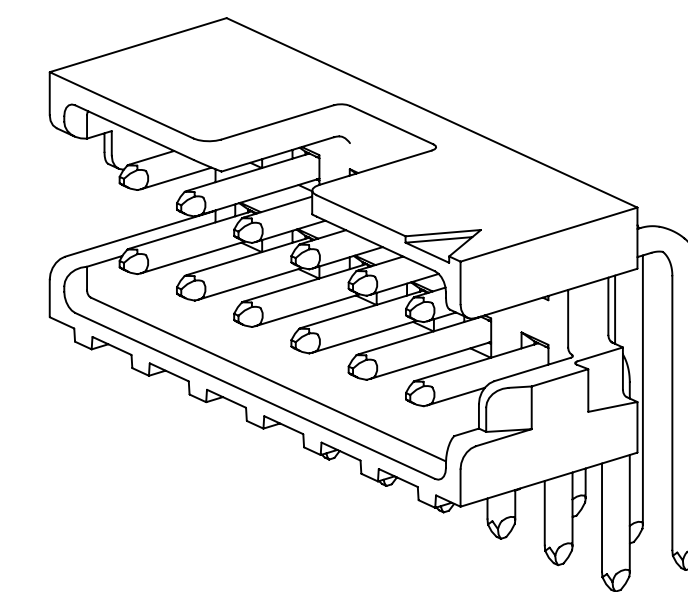
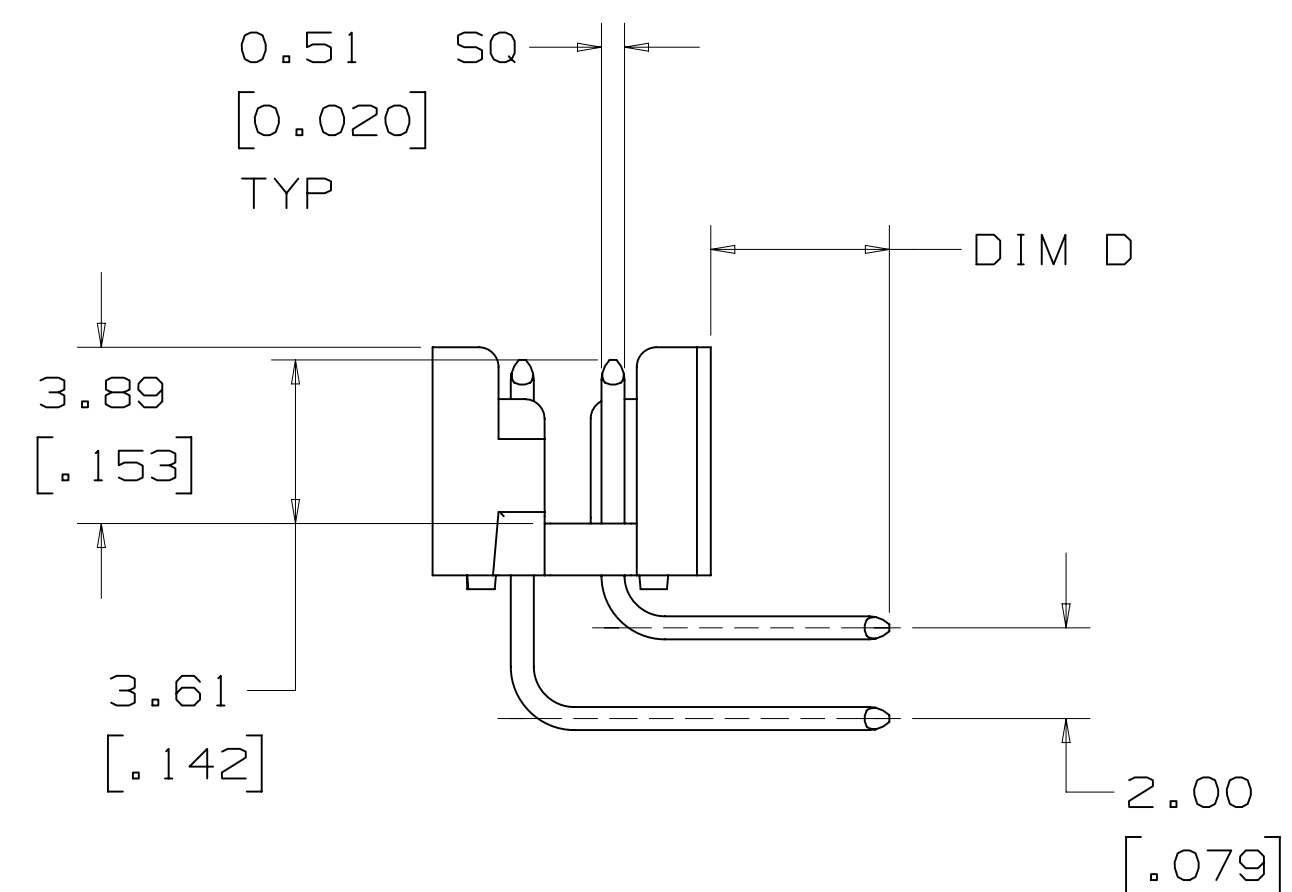
- NOTES
- MATERIAL:
BODY: HIGH TEMPERATURE
GLASS FILLED LCP, BLACK
UL94V-0
CONTACTS: COPPER ALLOY
 - PLATING:
2.03-3.81 μ m [80-150 μ in]
NICKEL UNDERPLATE.
0.38 μ m [15 μ in] OR
0.76 μ m [30 μ in] AVG GOLD
ON WIPING AREA.
5.08 μ m [200 μ in] MIN
MATTE TIN ON SOLDER TAILS.
 - STANDARD LENGTH HEADERS
MATE WITH 3M™ SOCKETS,
158 SERIES (REFERENCE 3M
DRAWING 78-5100-2358-9).
 - EXTENDED LENGTH HEADERS
MATE WITH 3M™ SOCKETS,
870 SERIES.
 - FOR PRODUCT
SPECIFICATIONS AND
WARRANTY INFORMATION SEE
3M 78-5102-0078-1.
 - SEE THE REGULATORY
INFORMATION APPENDIX (RIA)
IN THE "RoHS COMPLIANCE"
SECTION OF
WWW.3MCONNECTOR.COM FOR
COMPLIANCE INFORMATION
(RIA E1 & C1 APPLY).
 - IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND
THAT CONTAINED IN THE
PRODUCT SPECIFICATION,
THE PRODUCT SPECIFICATION
TAKES PRECEDENT.

DESIGN REFERENCE		NEXT ASSEMBLY		A	30741	OCT 28, 2010		LDS	SF
DISTRIBUTION CODES		REV		ECO	INITIAL RELEASE				
DIVISION		DATE		DATE	DATE	DATE	DATE	DATE	DATE
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED					
THIRD ANGLE PROJECTION		INCHES		MILLIMETERS					
INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS		ALL SURFACES					
125		MARKED ONLY		ANGLES					
TITLE		3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES		CAGE NUMBER		DRAWING NO.		REV.	
125		D		78-5100-2359-7		A			
MODEL		DET. LISTS		YES		NO		SHT 1 OF 4	

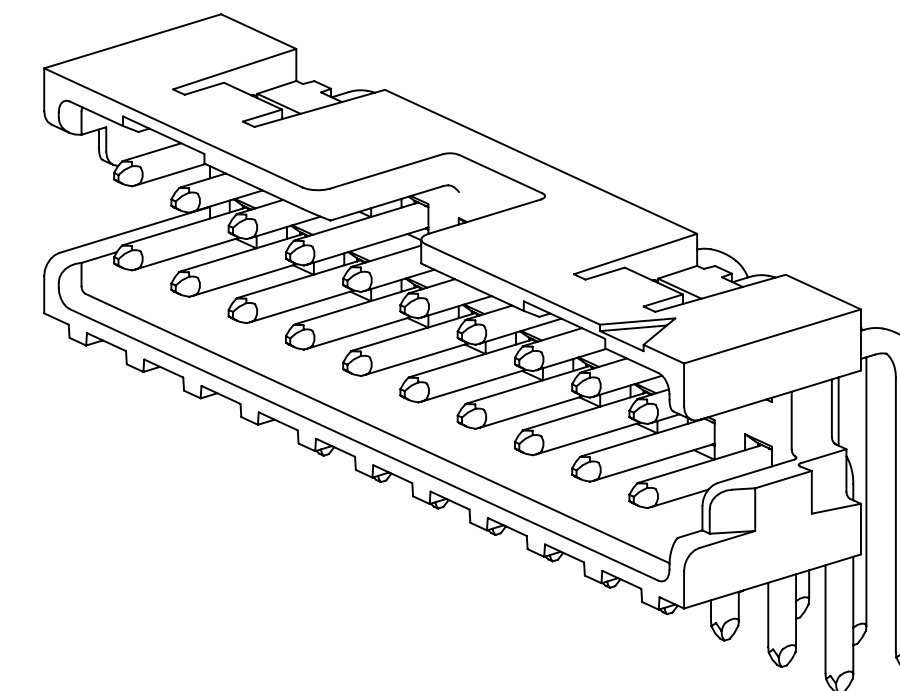
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length and Extended Length



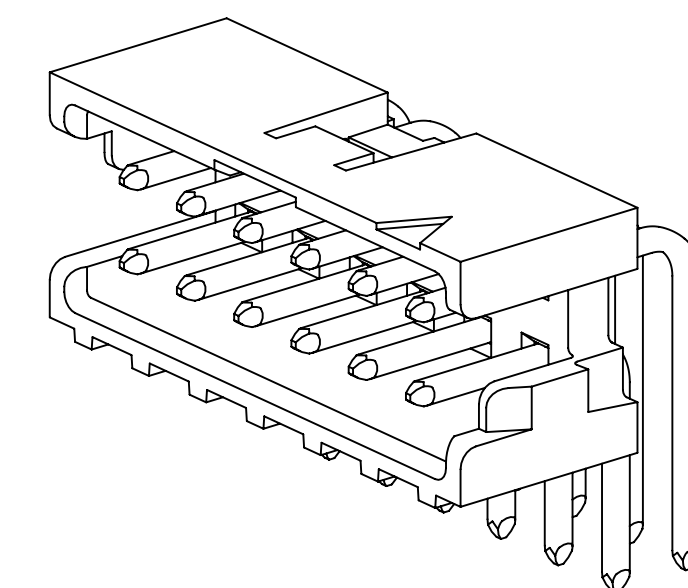
RECOMMENDED PCB HOLE PATTERN
TOLERANCE = ± 0.05 [.002]



POLARIZATION SLOT
RIGHT ANGLE HEADER
6-12 POSITIONS ONLY



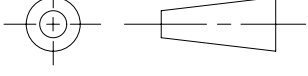
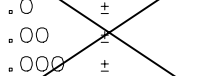
POLARIZATION SLOT AND
DUAL FRICTION LATCHES
RIGHT ANGLE HEADER
14-50 POSITIONS



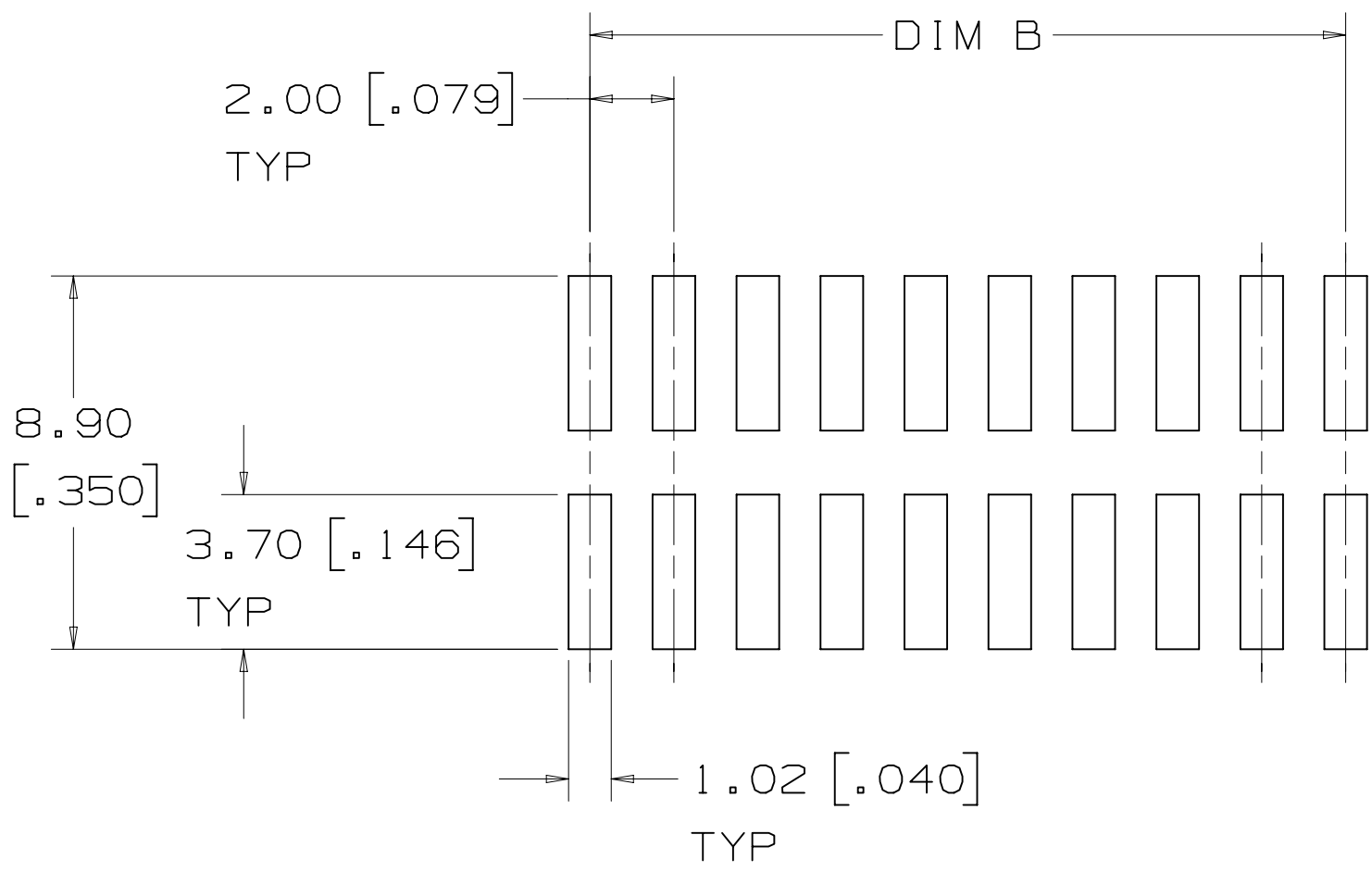
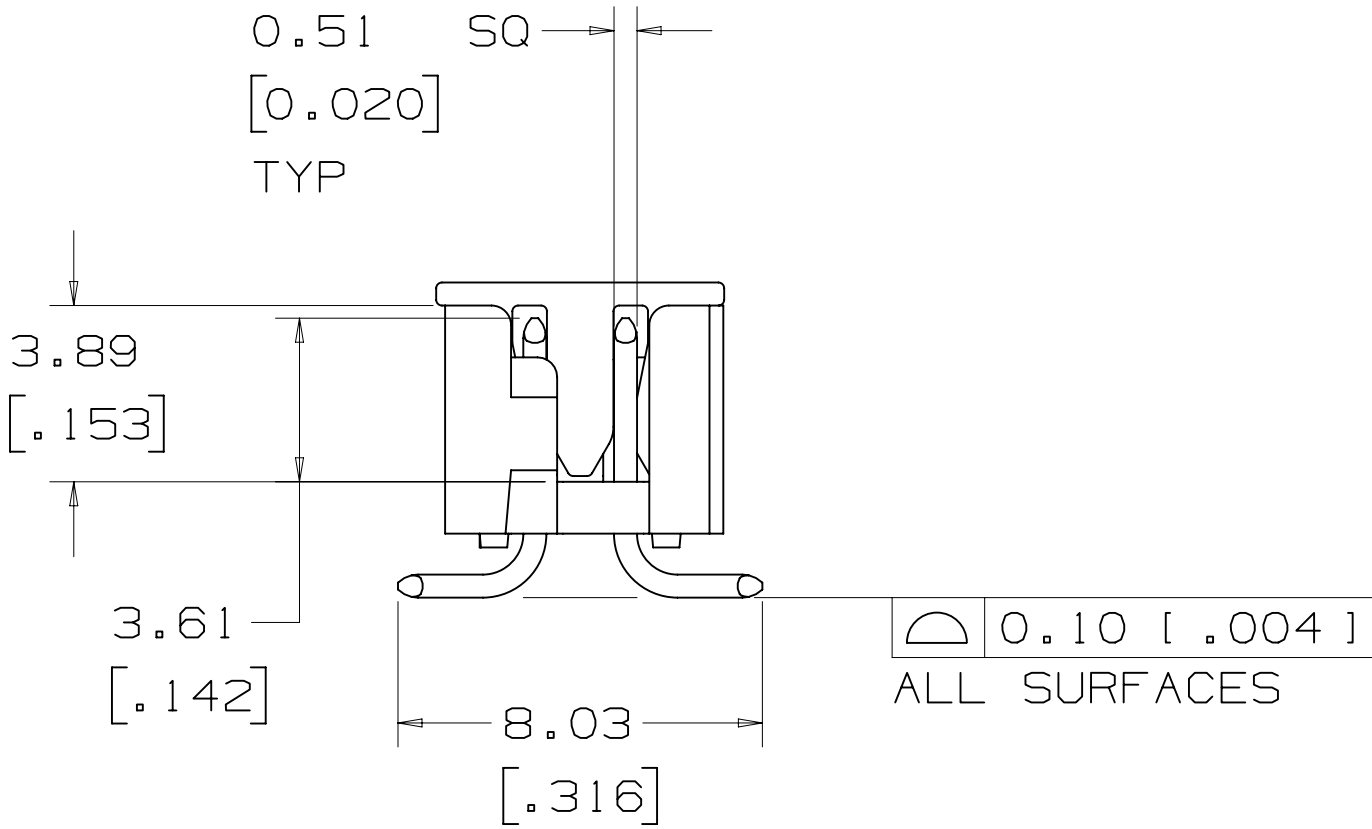
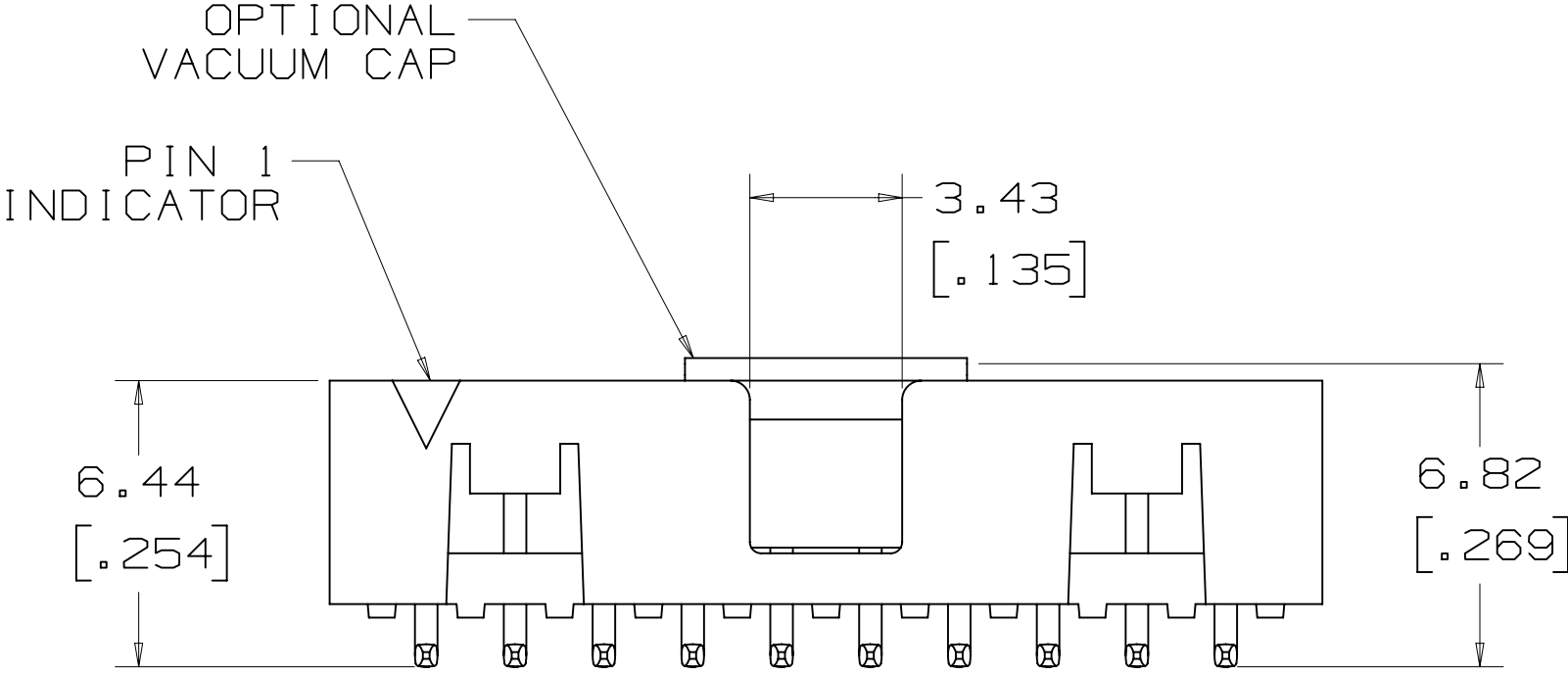
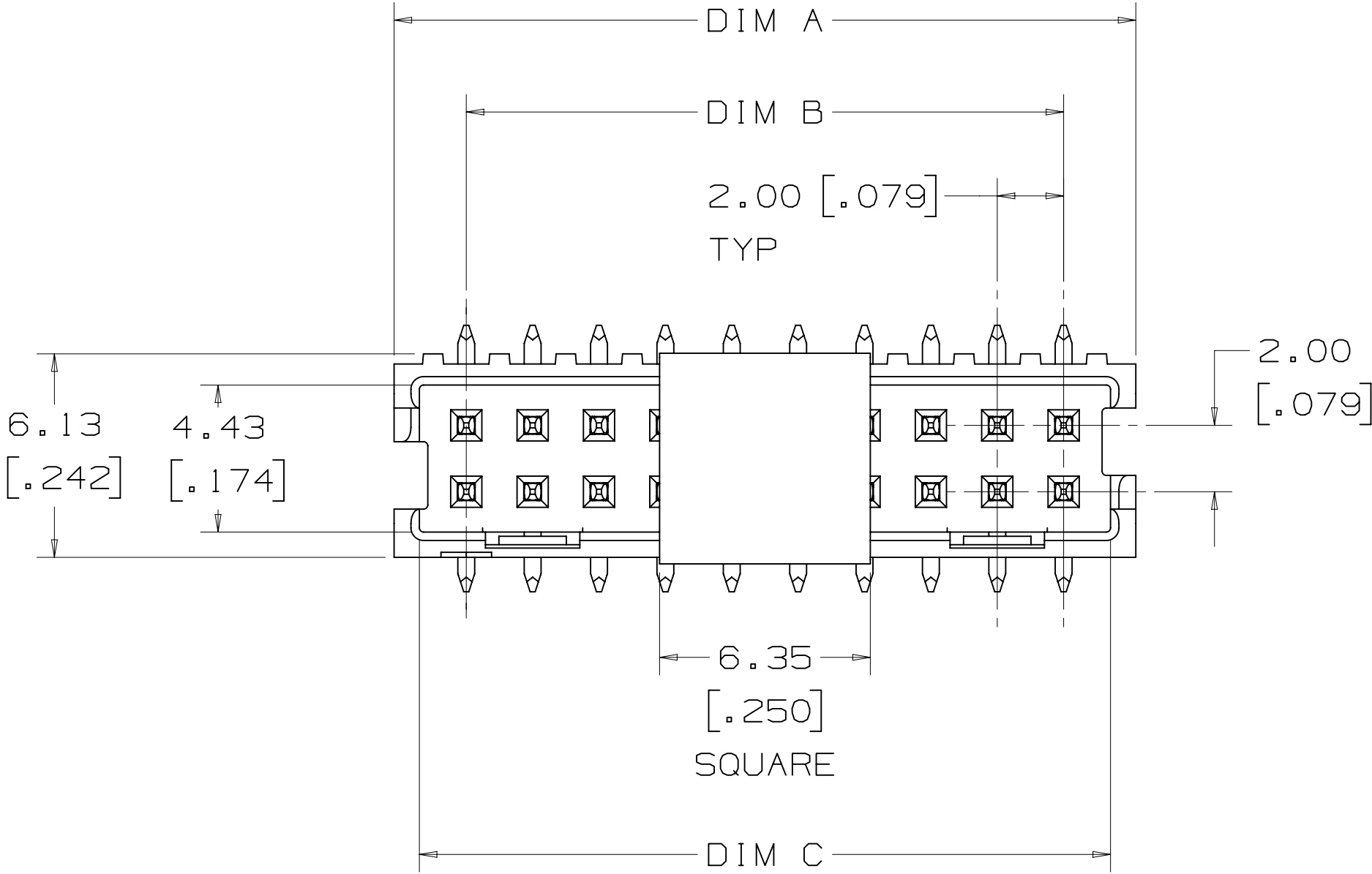
SINGLE FRICTION LATCH
RIGHT ANGLE HEADER
6-12 POSITIONS ONLY

REFERENCE TABLE ON SHEET 4
FOR AVAILABLE POSITIONS AND
SOLDER TAIL LENGTHS

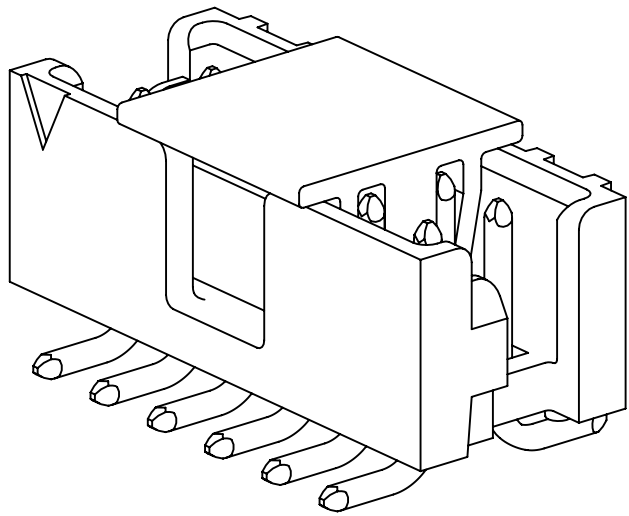
METRIC [ENGLISH]

		A 30741		OCT 28, 2010		LDS		SF	
				INITIAL RELEASE					
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
BTRMTR-LEVEL				DRW	L SCHMIDT		DATE	JUL 29, 2010	WFO
CODES				CHKD			DATE		
DIVISION		DIVISION CODE		APPROV		S FELDMAN		DATE	AUG 09, 2010
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		© 3M COPYRIGHT 2010 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission or used or disclosed other than for 3M authorized purposes. All rights reserved.			
						3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES			
THIRD ANGLE PROJECTION INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS 0.0 ± 0.00 ± 0.009 ± 0.000 ±		INCHES 0.0 ± 0.00 ± 0.009 ± 0.000 ±		TITLE		REV.	
MAX SURFACE ROUGHNESS 125		☐ ALL SURFACES ☒ MARKED ONLY		ANGLES ± 1° 0.0 ± 0.00 ± 0.13 0.000 ±		CASE NUMBER SIZE D 78-5100-2359-7		DRAWING NO. REV. A	
				MODEL		DET.		LISTS YES ☒ NO ☐	
								SHT 2 OF 4	

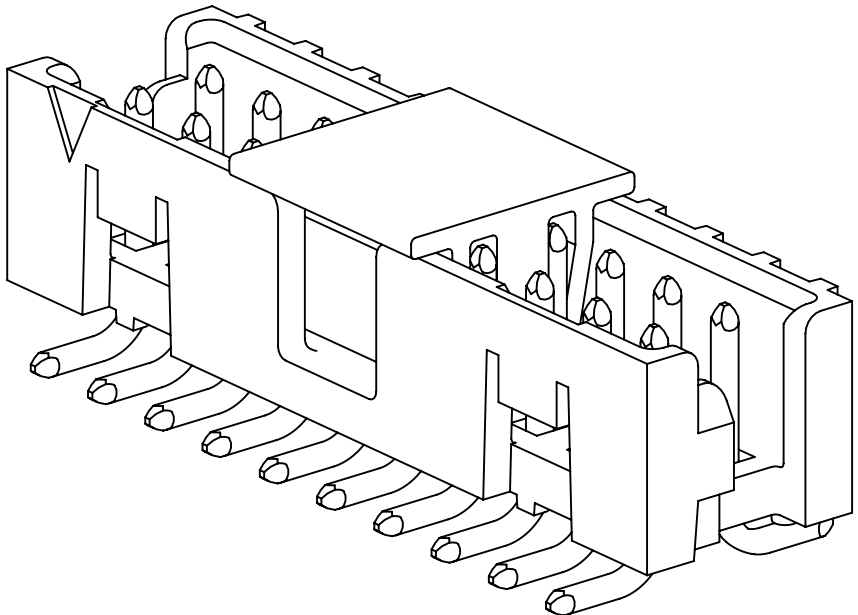
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length [3] and Extended Length [4]



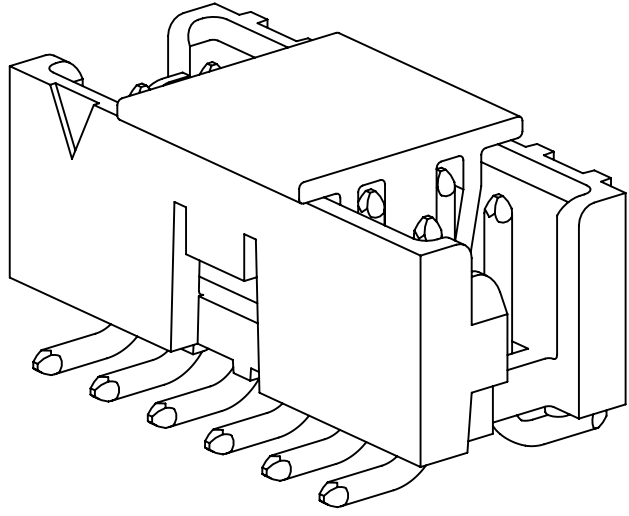
RECOMMENDED PCB PAD PATTERN
TOLERANCE = ±0.08 [0.003]



POLARIZATION SLOT
SURFACE MOUNT HEADER
6-12 POSITIONS ONLY



POLARIZATION SLOT AND
DUAL FRICTION LATCHES
SURFACE MOUNT HEADER
14-50 POSITIONS



SINGLE FRICTION LATCH
SURFACE MOUNT HEADER
6-12 POSITIONS ONLY

REFERENCE TABLE ON SHEET 4
FOR AVAILABLE POSITIONS

METRIC [ENGLISH]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DISTANCE		SCALE		DATE		DATE		DATE	
L. SCHMIDT		JUL 29, 2010		MFG		JUL 29, 2010		DATE	
DIVISION		DIVISION CODE		APPROVAL		DATE		DATE	
DO NOT SCALE DRAWING		SCALE 4/1		TOLERANCES EXCEPT AS NOTED		NOTED		NOTED	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		INCHES		MILLIMETERS		TOLERANCES EXCEPT AS NOTED	
MAX SURFACE ROUGHNESS		ALL SURFACES		0.00 ± 0.13		0.00 ± 0.13		0.00 ± 0.13	
125/		MARKED ONLY		ANGLES ±1°		ANGLES ±1°		ANGLES ±1°	
A 30741		OCT 28, 2010		INITIAL RELEASE		LDS		SF	
3M		3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2010		This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.		TITLE	
3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES		CAGE NUMBER		DRAWING NO.		REV.		REV.	
125/		D 78-5100-2359-7		MODEL		DET		SHT 3 OF 4	

Mouser Electronics

Authorized Distributor

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3M:

<u>159108-2022</u>	<u>159120-5102</u>	<u>159110-2022</u>	<u>159106-2012</u>	<u>159106-5012</u>	<u>159106-6012</u>	<u>159108-2012</u>	<u>159108-5012</u>
<u>159108-6012</u>	<u>159110-2012</u>	<u>159110-5012</u>	<u>159110-6012</u>	<u>159112-2012</u>	<u>159112-5012</u>	<u>159112-6012</u>	<u>159114-2002</u>
<u>159114-5002</u>	<u>159114-6002</u>	<u>159116-2002</u>	<u>159116-5002</u>	<u>159116-6002</u>	<u>159120-2002</u>	<u>159120-5002</u>	<u>159120-6002</u>
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