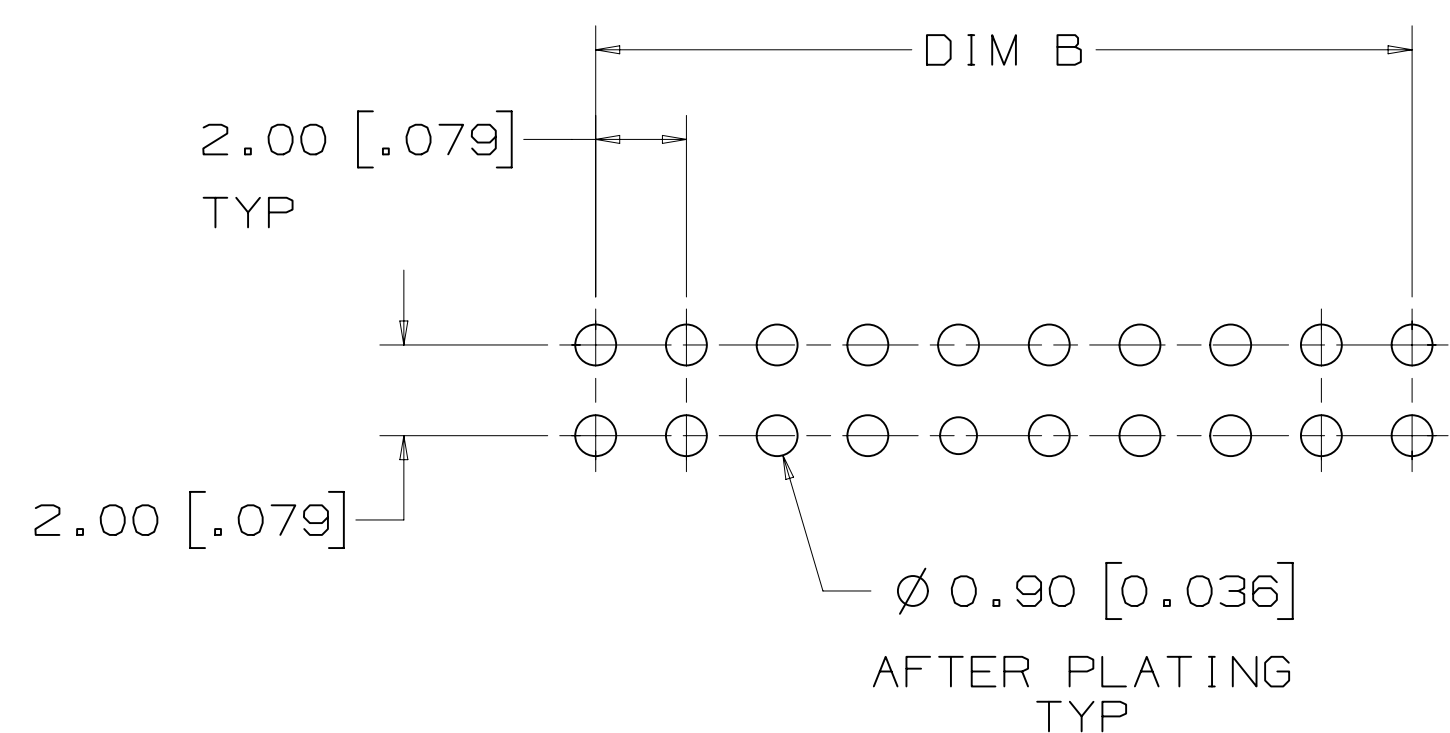
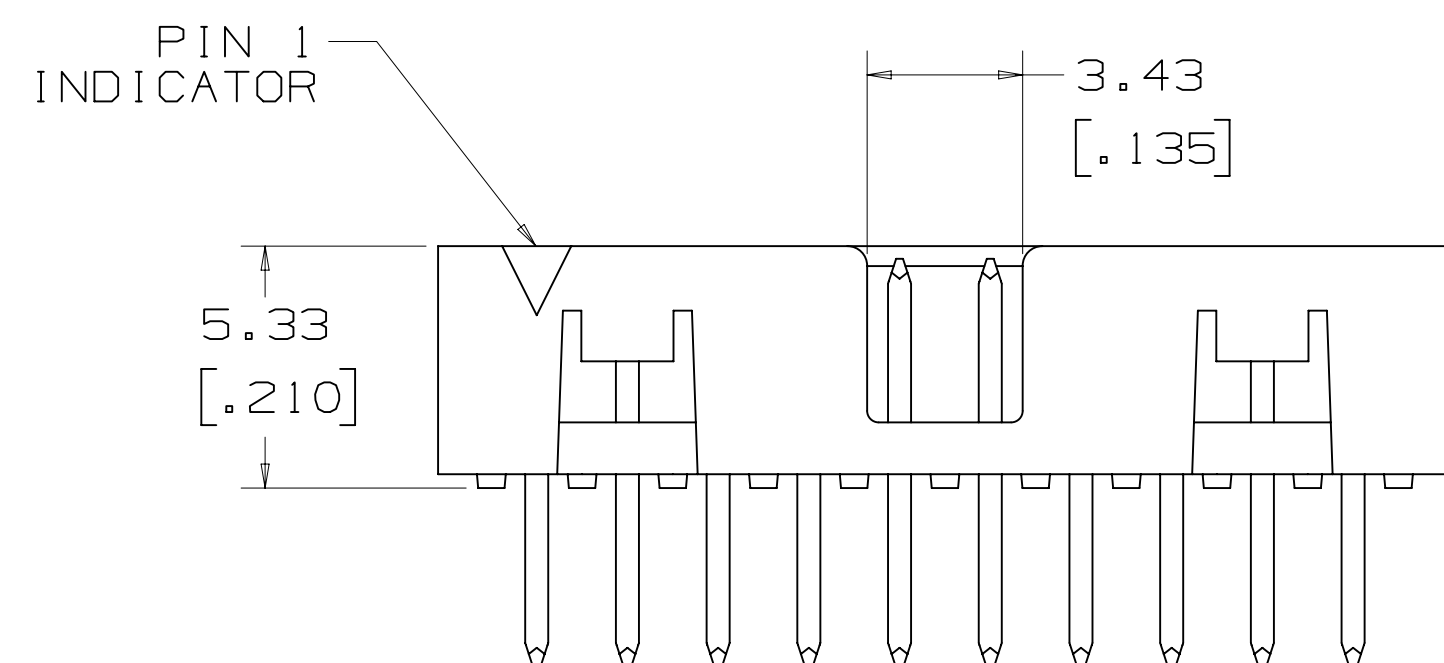
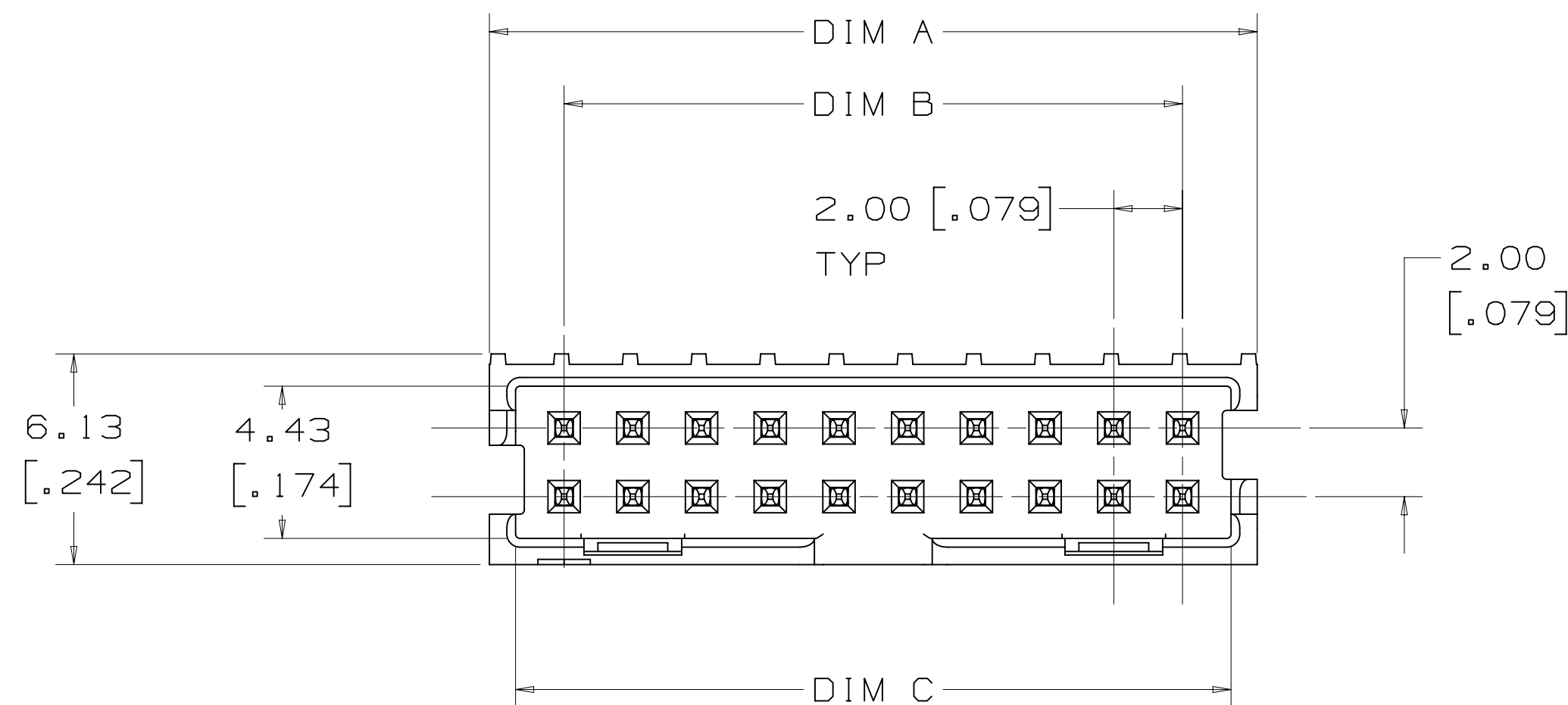
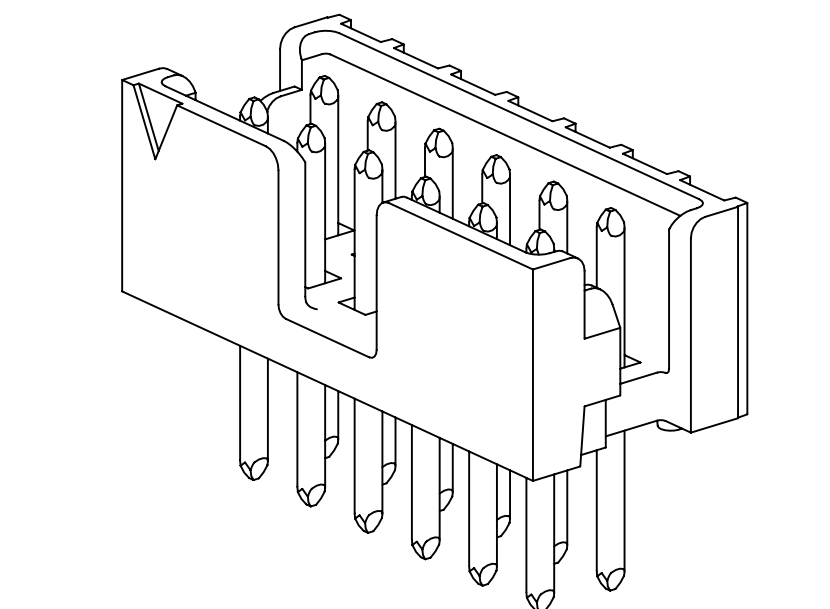


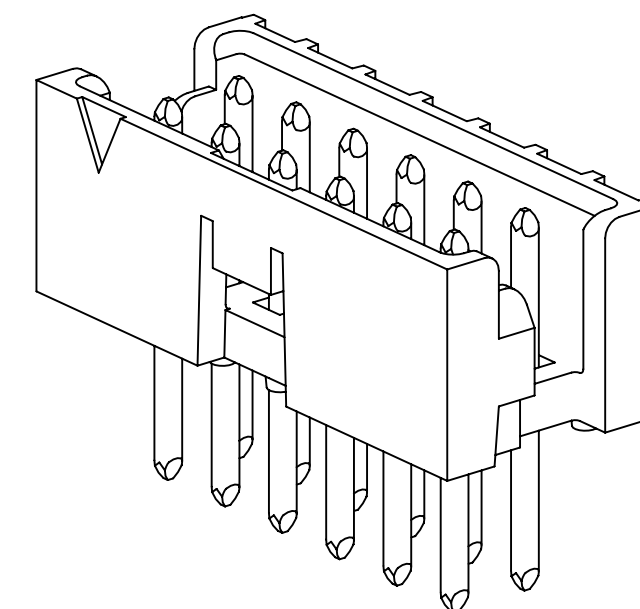
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length and Extended Length



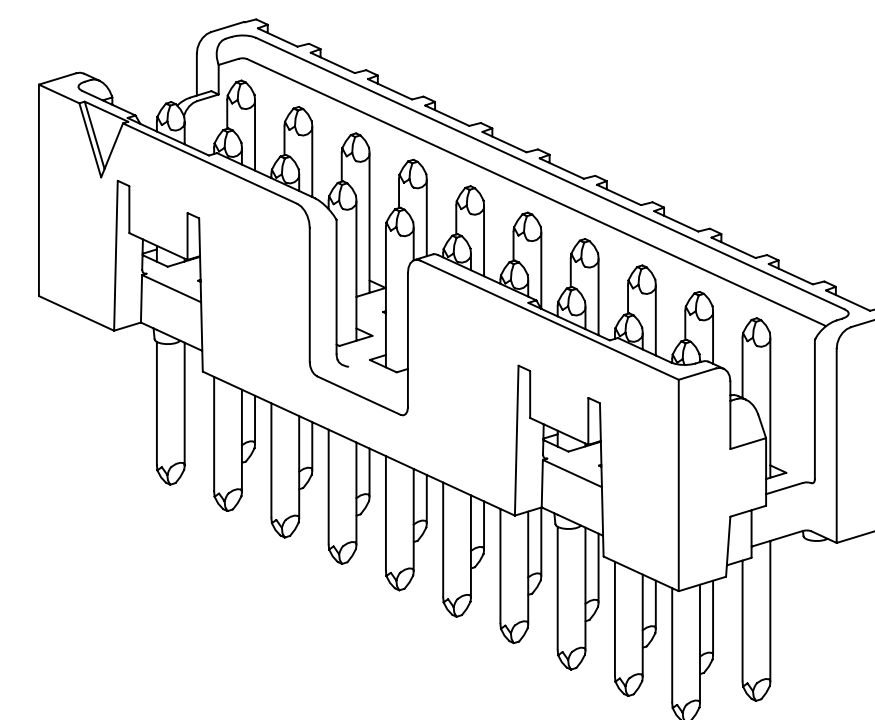
RECOMMENDED PCB HOLE PATTERN
TOLERANCE = 0.05 [.002]



POLARIZATION SLOT
THRU-HOLE VERTICAL HEADER
6-12 POSITIONS ONLY



SINGLE FRICTION LATCH
THRU-HOLE VERTICAL HEADER
6-12 POSITIONS ONLY



POLARIZATION SLOT AND
DUAL FRICTION LATCHES
THRU-HOLE VERTICAL HEADER
14-50 POSITIONS

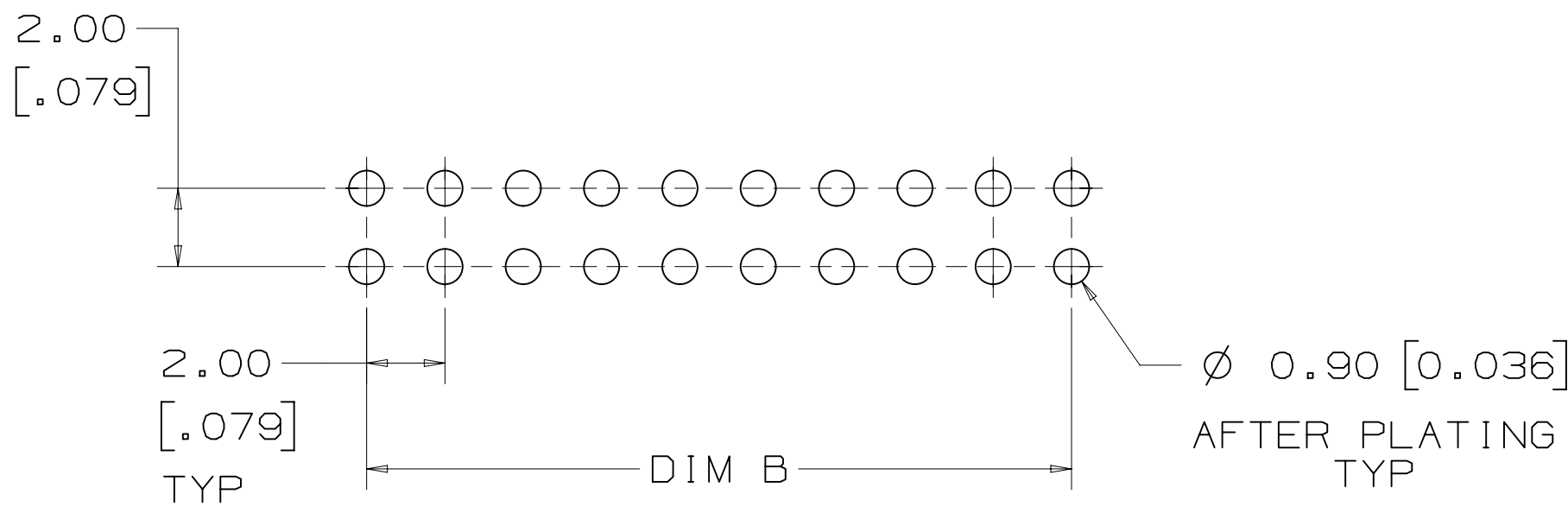
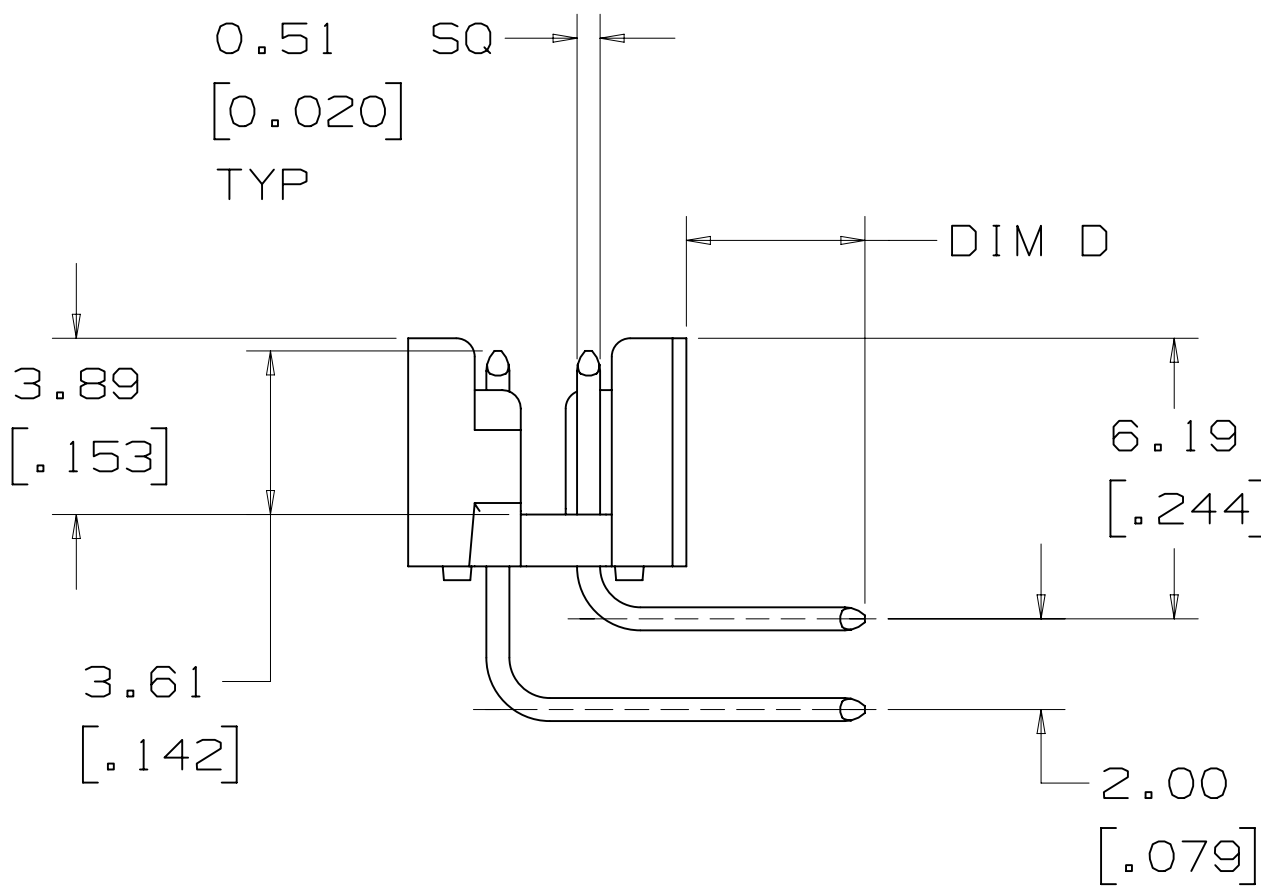
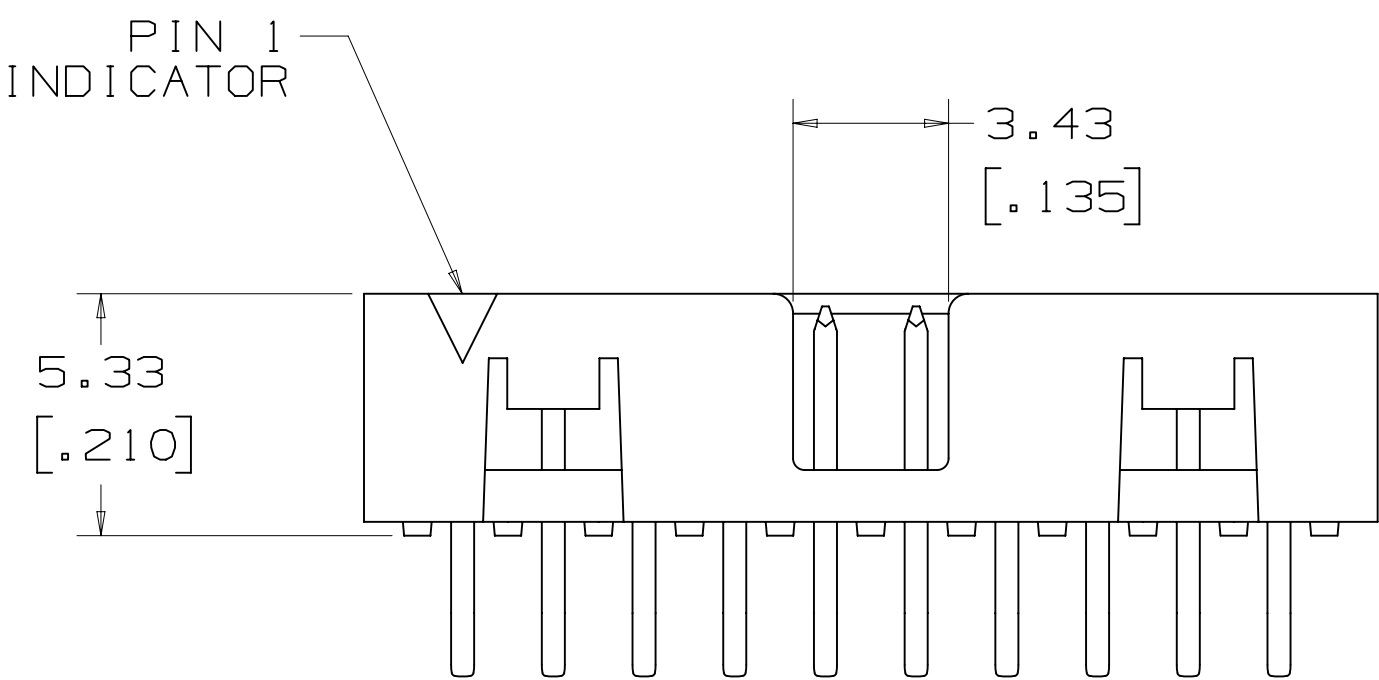
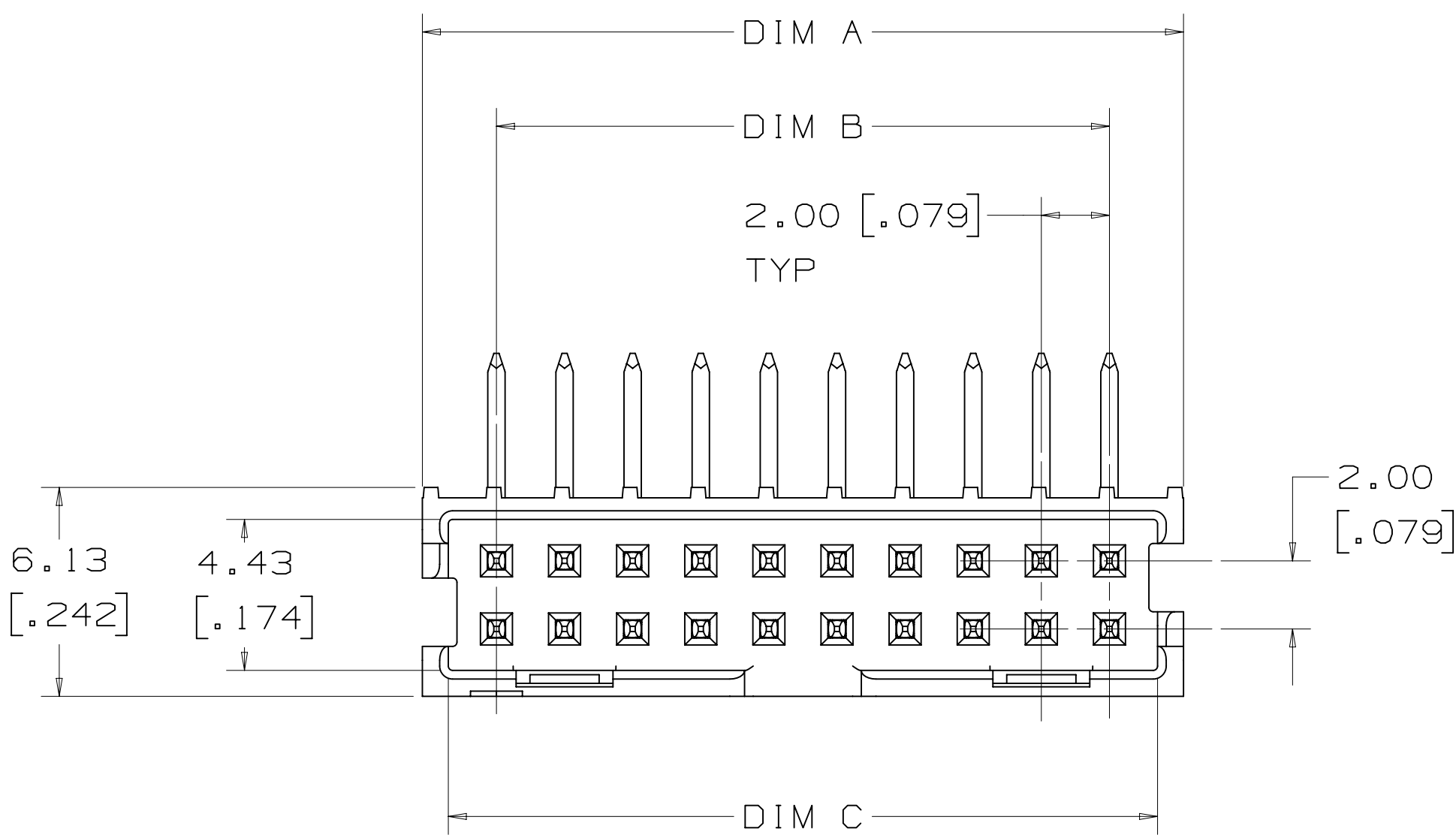
PERFORMANCE [5][7]	
CURRENT:	1.25 A, ALL LINES ENERGIZED 2.75 A, 6 LINES ENERGIZED 4.75 A, 1 LINE ENERGIZED
INSULATION RESISTANCE:	>1 X 10 ⁹ OHMS AT 500 VDC
WITHSTANDING VOLTAGE:	500 VACrms AT SEA LEVEL
TEMPERATURE RATING:	-55° C TO +105° C
SOLDER PROCESS TEMPERATURE:	260° C MAX PER IPC/JEDEC J-STD-020D

REFERENCE TABLE ON SHEET 5
FOR AVAILABLE POSITIONS AND
SOLDER TAIL LENGTHS

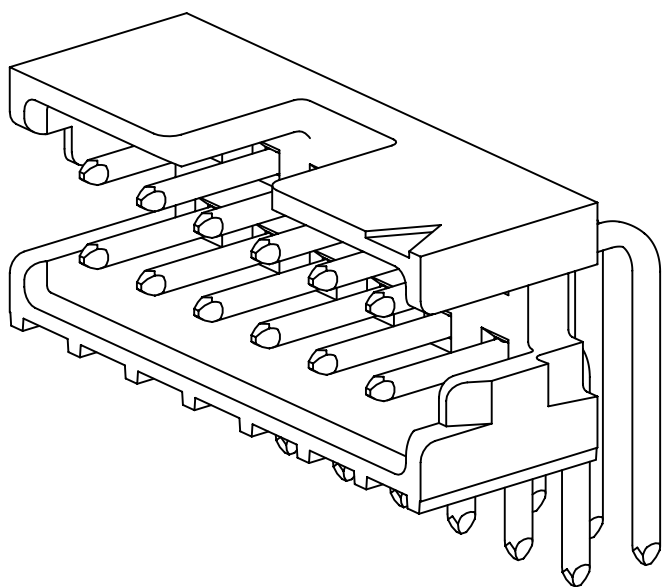
METRIC [ENGLISH]

DESIGN REFERENCE						NEXT ASSEMBLY						REV		ECO		ISSUE DATE AND DESCRIPTION								DRFT		CHKD					
DRAWING CODES												DWG L. SCHMIDT		DATE JUN 29, 2010		MFG		DATE													
												CHKD		DATE		APPROV S FELDMAN		DATE AUG 09, 2010													
DIVISION						DIVISION CODE						© 3M COPYRIGHT 2010																			
DO NOT SCALE DRAWING						SCALE $\frac{6}{1}$						TOLERANCES EXCEPT AS NOTED						 3M Center St. Paul, MN 55144 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.													
						THIRD ANGLE PROJECTION						INTERPRET PER ASME Y14.5 - 1994						TITLE 3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES													
MAX SURFACE ROUGHNESS 125						☐ ALL SURFACES ☒ MARKED ONLY						ANGLES : 1°						CASE NUMBER D		SIZE 78-5100-2359-7		DRAWING NO.		REV. D							
																		MODEL		DET.		☐ YES ☒ NO		SHT 1 OF 1							

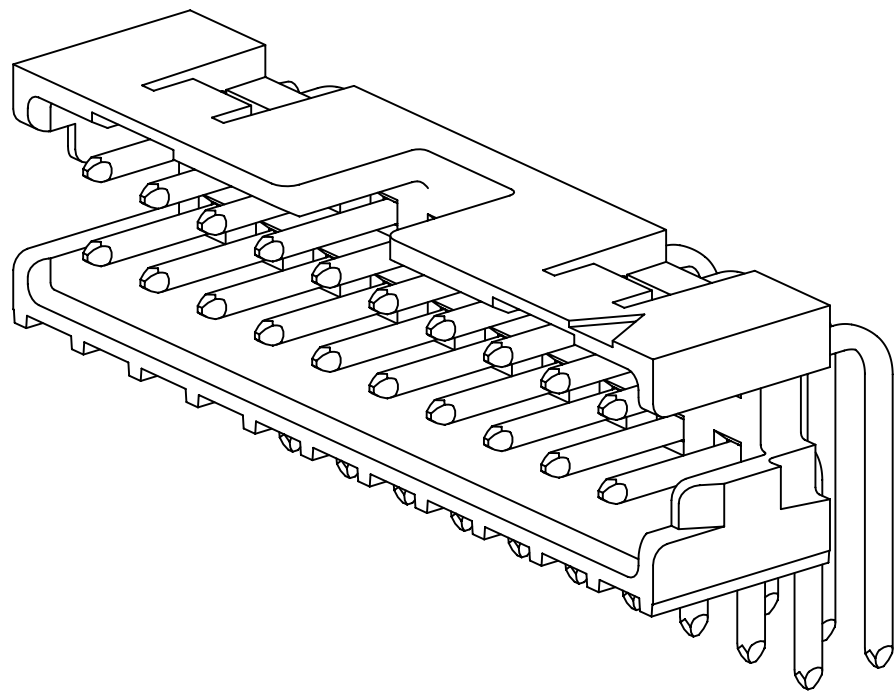
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length [3] and Extended Length [4]



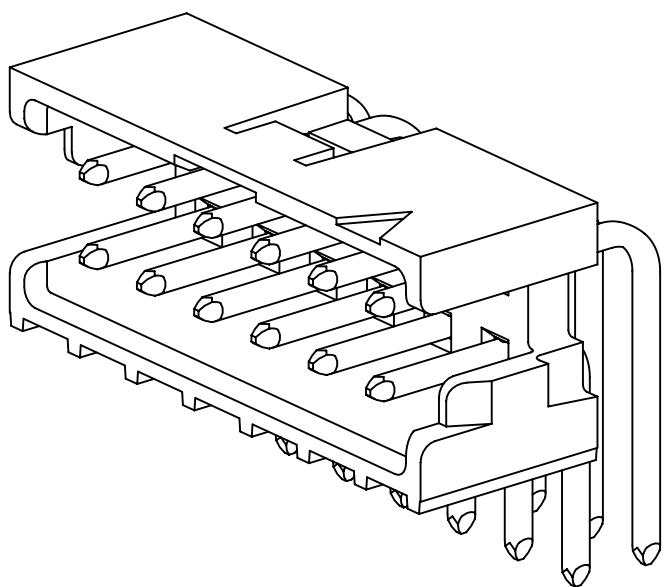
RECOMMENDED PCB HOLE PATTERN
TOLERANCE = ±0.05 [.002]



POLARIZATION SLOT
RIGHT ANGLE HEADER
6-12 POSITIONS ONLY



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



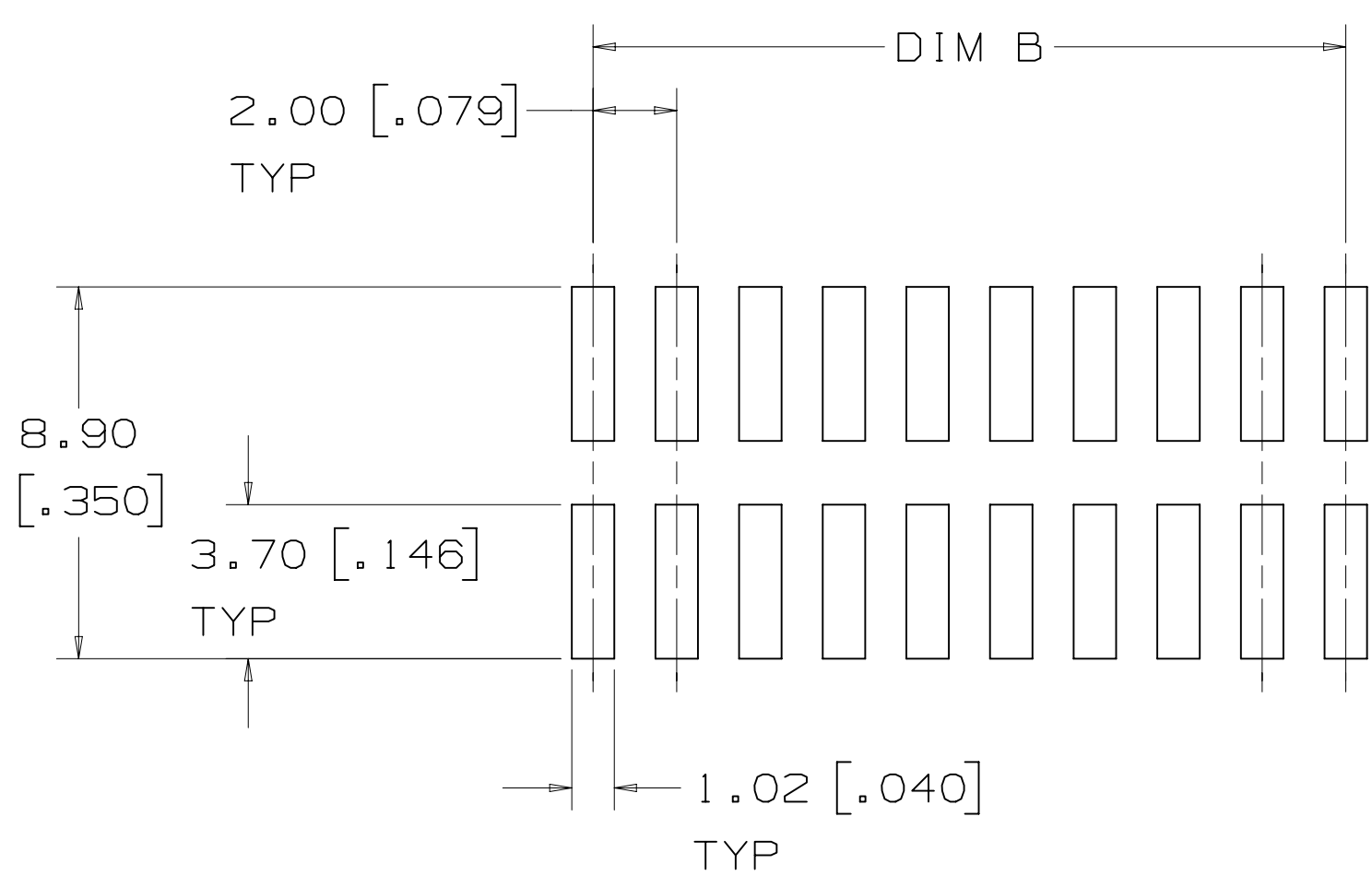
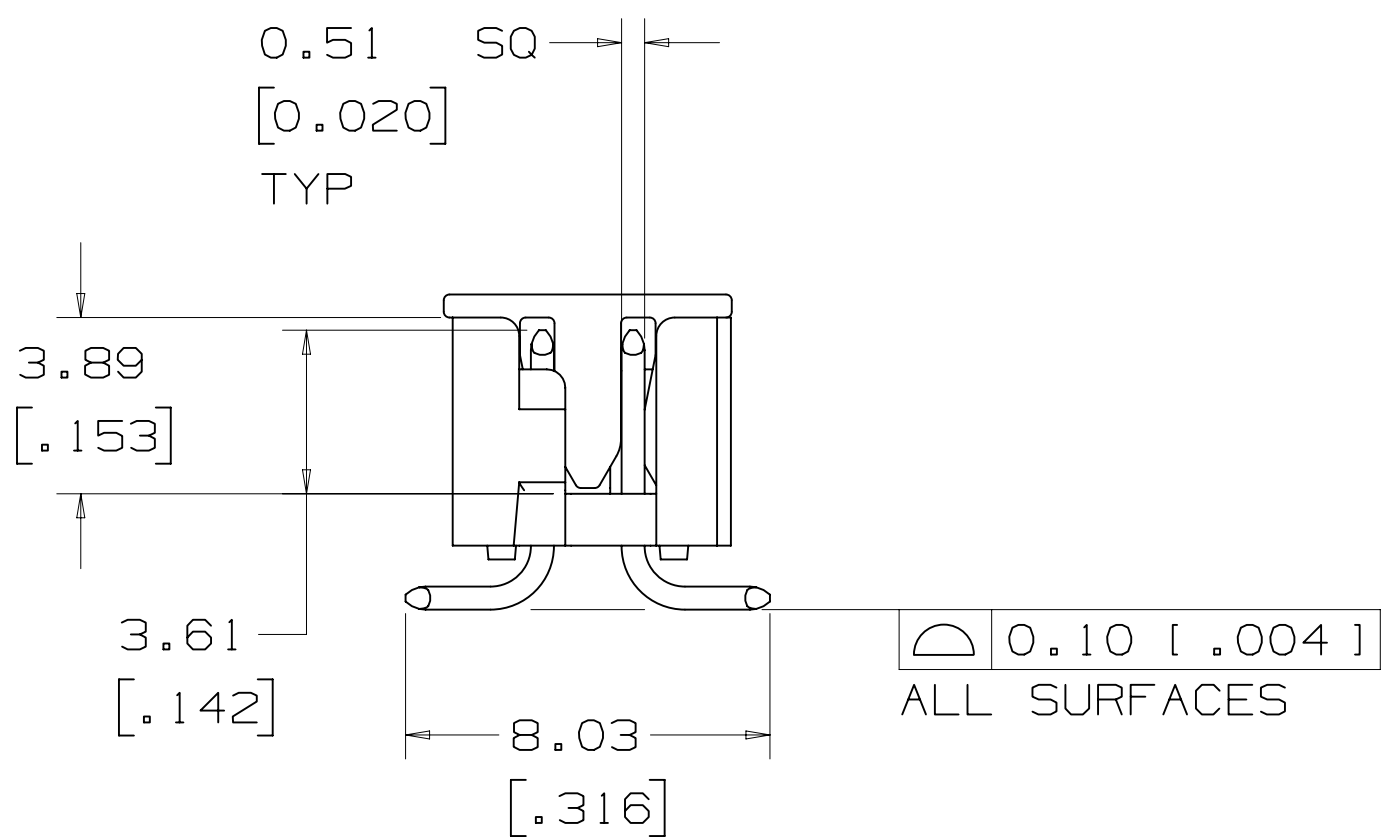
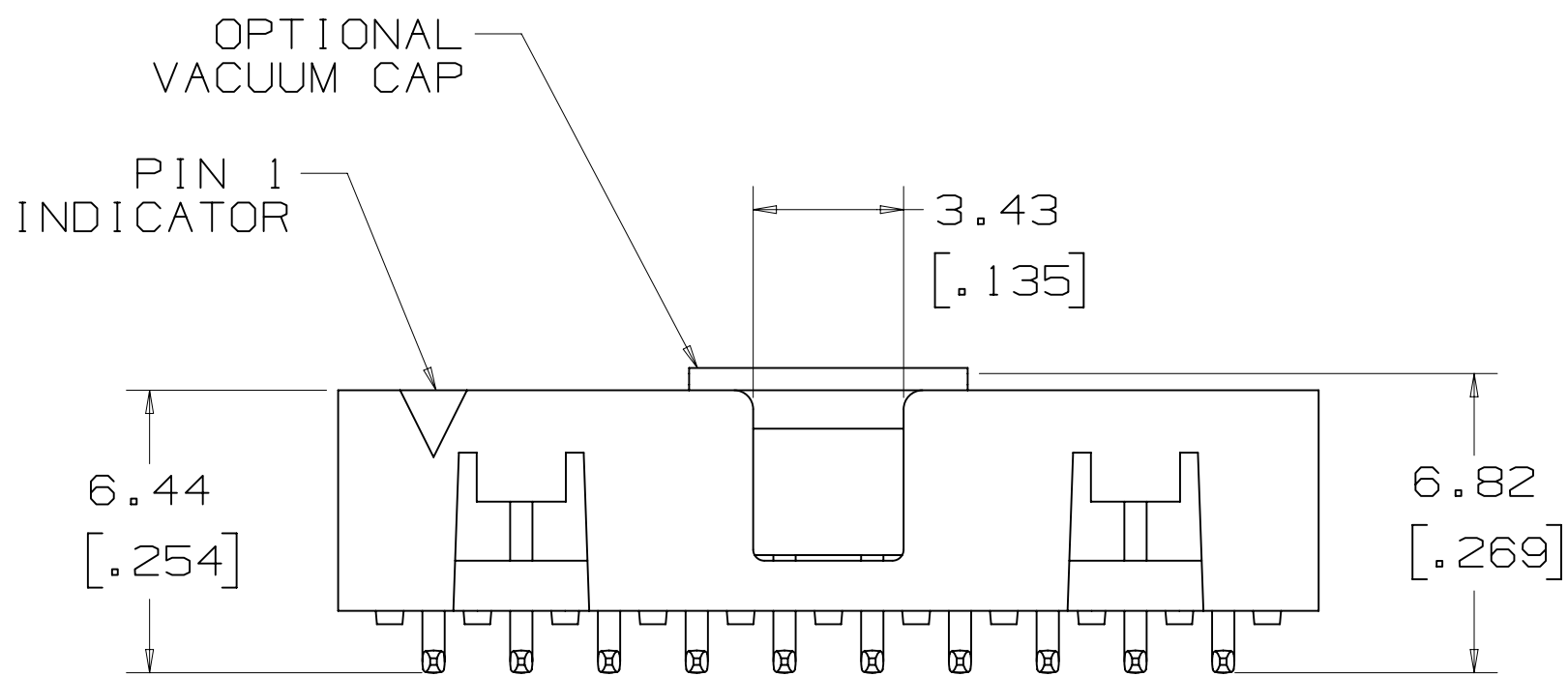
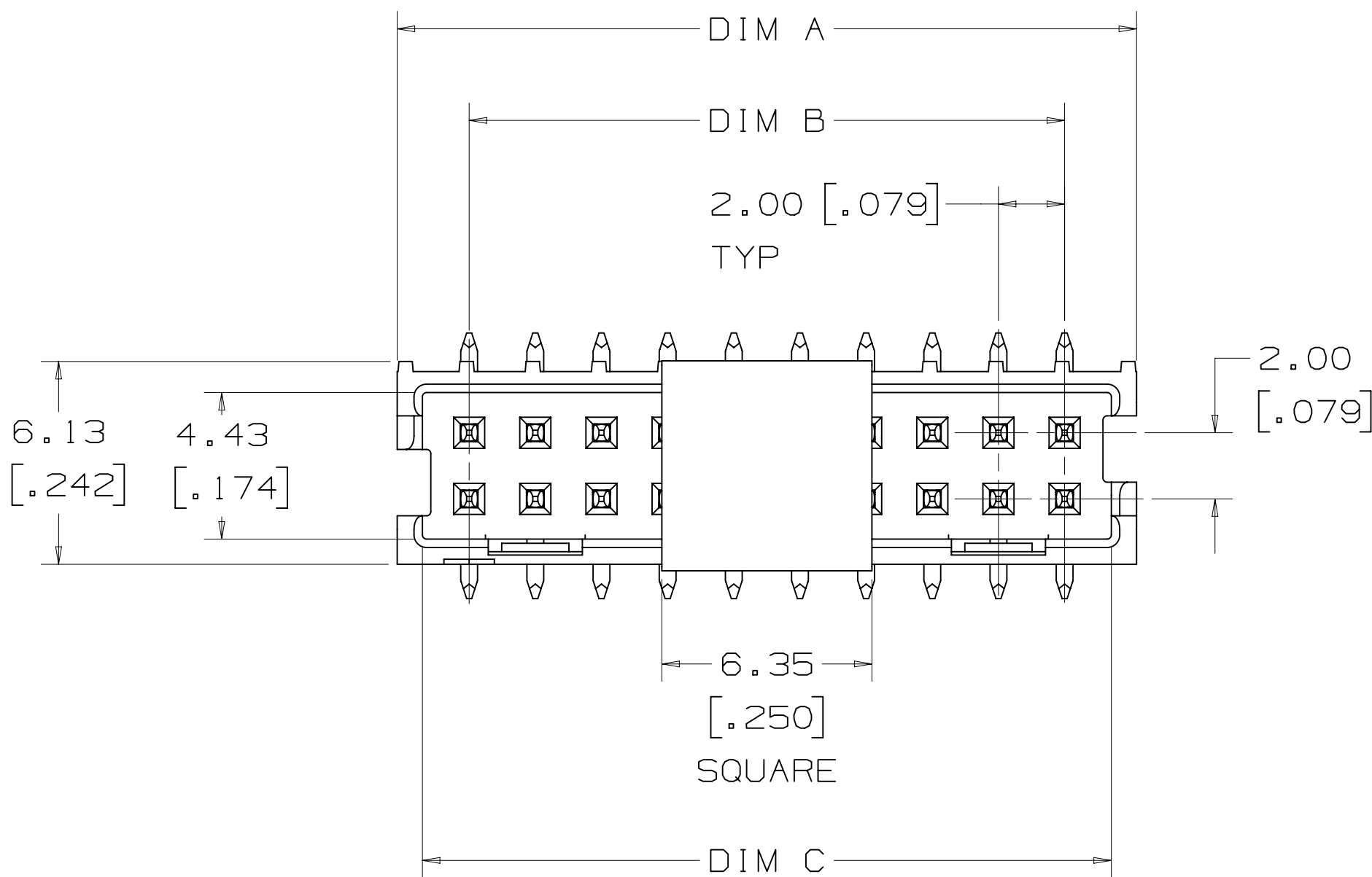
SINGLE FRICTION LATCH
RIGHT ANGLE HEADER
6-12 POSITIONS ONLY

REFERENCE TABLE ON SHEET 5
FOR AVAILABLE POSITIONS AND
SOLDER TAIL LENGTHS

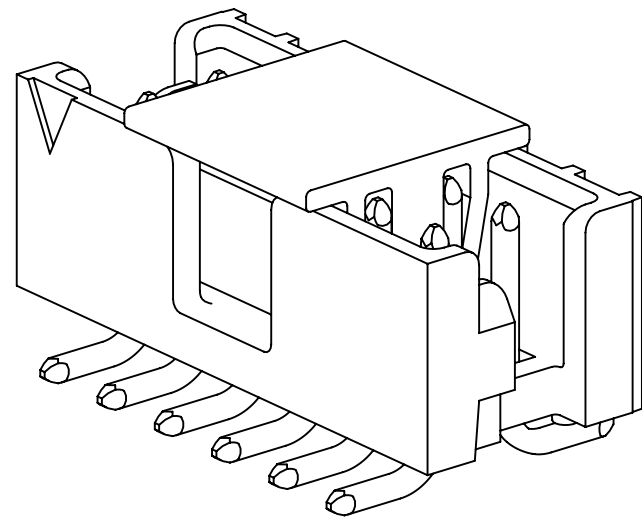
METRIC [ENGLISH]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DIST. PART NO.		DATE		DRFT	CHKD	DATE	DESCRIPTION	DATE	DESCRIPTION
L. SCHMIDT		JUL 29, 2010		DRFT	CHKD	DATE	DESCRIPTION	DATE	DESCRIPTION
DIVISION		DIVISION CODE		DRFT	CHKD	DATE	DESCRIPTION	DATE	DESCRIPTION
DO NOT SCALE DRAWING		SCALE 4/1		TOLERANCES EXCEPT AS NOTED		INCHES			
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS		MILLIMETERS			
MAX SURFACE ROUGHNESS		ALL SURFACES		ANGLES ±1°		CAGE NUMBER			
125		MARKED ONLY		DRAWING NO.		REV.			
				D		SHT 2 OF 5			

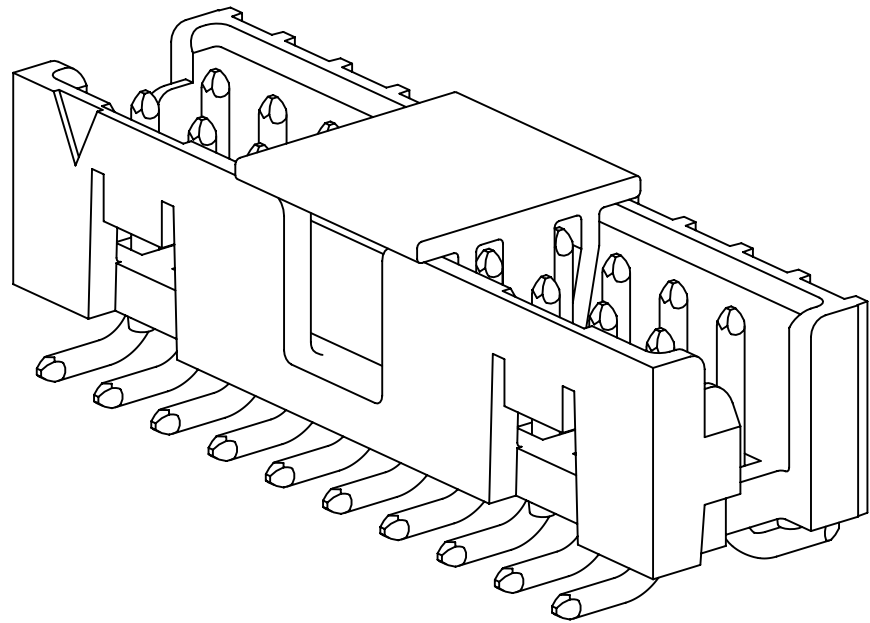
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length [3] and Extended Length [4]



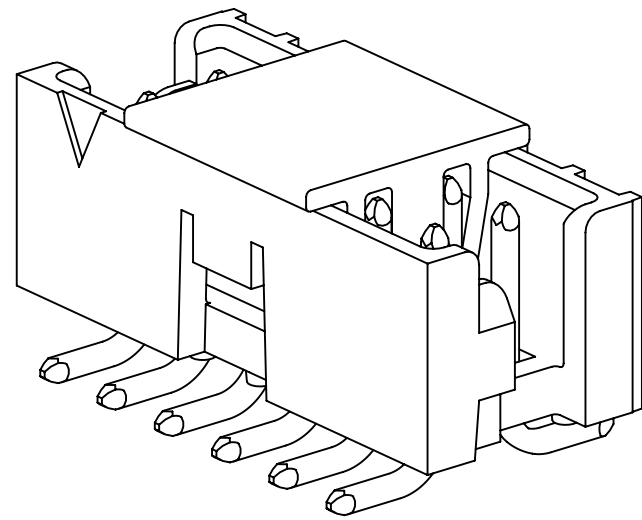
RECOMMENDED PCB PAD PATTERN
TOLERANCE = ±0.08 [0.003]



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

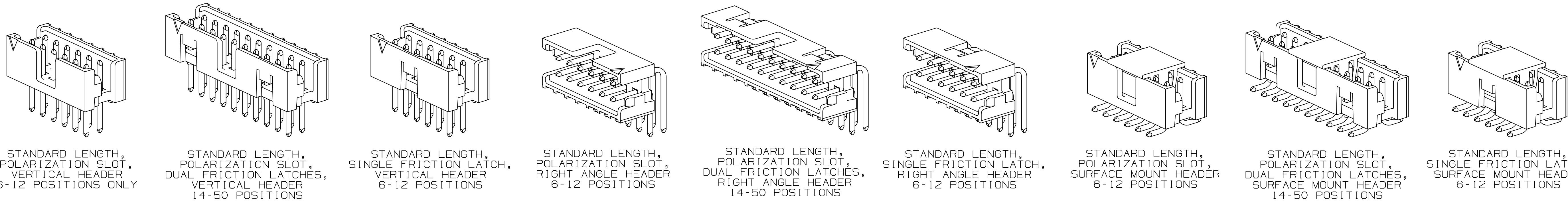
REFERENCE TABLE ON SHEET 5
FOR AVAILABLE POSITIONS

METRIC [ENGLISH]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DISTRIBUTION CODES				DRFT	CHKD	DATE	DATE	DATE	DATE
				L. SCHMIDT		JUL 29, 2010			
								S. FELDMAN	AUG 09, 2010
DIVISION		DIVISION CODE							
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED					
		THIRD ANGLE PROJECTION		INCHES					
INTERPRET PER ASME Y14.5 - 1994				MILLIMETERS					
MAX SURFACE ROUGHNESS 125 ✓		□ ALL SURFACES		0 ±					
✗ MARKED ONLY				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					
				0.00 ±					

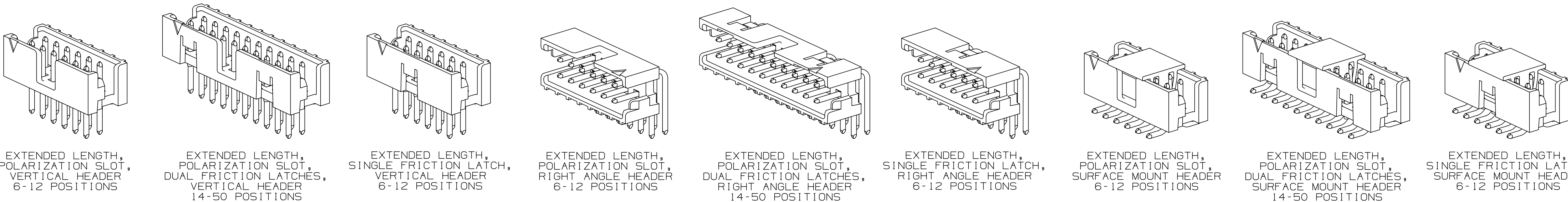
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length 3

STANDARD LENGTH HEADERS
ARE AVAILABLE



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

CALL 3M INTERCONNECT SOLUTIONS
AT 800-225-5373 FOR AVAILABILITY
OF EXTENDED LENGTH HEADERS



ORDERING INFORMATION

TIER 1 - BEST
1591XX-XXXX

TIER
1 = BEST 0.76 μm
[30 μin] GOLD

POSITION COUNT
(SEE TABLE)

PART CONFIGURATION
2 = VERTICAL SMT
5 = RIGHT ANGLE THRU HOLE
6 = VERTICAL THRU HOLE

BODY LENGTH
0 = STANDARD LENGTH
(MATES TO 158 SERIES)
1 = EXTENDED LENGTH
(MATES TO 870 SERIES)

CONTACT TAIL LENGTH
2 = 2.84 mm [.112]
3 = 3.94 mm [.155]

POLARIZATION/LATCHING
0 = POLARIZATION SLOT AND
DUAL FRICTION LATCHES
(14-50 POSITIONS ONLY)
1 = POLARIZATION SLOT
(6-12 POSITIONS ONLY)
2 = SINGLE FRICTION LATCH
(6-12 POSITIONS ONLY)

TIER 2 - BETTER
1592XX-XXXX

TIER
2 = BETTER 0.38 μm
[15 μin] GOLD

POSITION COUNT
(SEE TABLE)

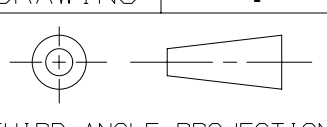
PART CONFIGURATION
2 = VERTICAL SMT
5 = RIGHT ANGLE THRU HOLE
6 = VERTICAL THRU HOLE

BODY LENGTH
0 = STANDARD LENGTH
(MATES TO 158 SERIES)
1 = EXTENDED LENGTH
(MATES TO 870 SERIES)

CONTACT TAIL LENGTH
2 = 2.84 mm [.112]
3 = 3.94 mm [.155]

POLARIZATION/LATCHING
0 = POLARIZATION SLOT AND
DUAL FRICTION LATCHES
(14-50 POSITIONS ONLY)
1 = POLARIZATION SLOT
(6-12 POSITIONS ONLY)
2 = SINGLE FRICTION LATCH
(6-12 POSITIONS ONLY)

METRIC [ENGLISH]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DIST. PART CODES		DRFT	L. SCHMIDT	DATE JUL 29, 2010	MFG	DATE
DIVISION	DIVISION CODE	CHKD		DATE	APPROV S FELDMAN	DATE AUG 09, 2010
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED	 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.			
THIRD ANGLE PROJECTION		INCHES .00 .00 .002 .0000				
INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS 0 0 0.00 0.00	TITLE 3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES			
MAX SURFACE ROUGHNESS 125 ALL SURFACES MARKED ONLY		ANGLES $\pm 1^\circ$				
CAGE NUMBER 125	SIZE D	DRAWING NO. 78-5100-2359-7	REV. D	MODEL LISTS YES NO SHT 4 OF 5		

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

SHROUDED BOX HEADER							
NUMBER OF POSITIONS	DIM A		DIM B	DIM C		DIM D	
	STANDARD	EXTENDED		STANDARD	EXTENDED		
6	8.35 [.329]	9.52 [.375]	4.00 [.157]	6.83 [.269]	7.99 [.315]	2.84 [.112]	3.94 [.155]
8	10.35 [.407]	11.52 [.453]	6.00 [.236]	8.83 [.347]	9.99 [.393]	2.84 [.112]	3.94 [.155]
10	12.35 [.486]	13.52 [.532]	8.00 [.315]	10.83 [.426]	11.99 [.472]	2.84 [.112]	3.94 [.155]
12	14.35 [.565]	15.52 [.611]	10.00 [.394]	12.83 [.505]	13.99 [.551]	2.84 [.112]	3.94 [.155]
14	16.35 [.644]	17.52 [.690]	12.00 [.472]	14.83 [.584]	15.99 [.630]	2.84 [.112]	3.94 [.155]
16	18.35 [.722]	19.52 [.768]	14.00 [.551]	16.83 [.662]	17.99 [.708]	2.84 [.112]	3.94 [.155]
20	22.35 [.880]	23.52 [.926]	18.00 [.709]	20.83 [.820]	21.99 [.866]	2.84 [.112]	3.94 [.155]
22	24.35 [.959]	25.52 [1.005]	20.00 [.787]	22.83 [.899]	23.99 [.945]	2.84 [.112]	3.94 [.155]
24	26.35 [1.037]	27.52 [1.083]	22.00 [.866]	24.83 [.977]	25.99 [1.023]	2.84 [.112]	3.94 [.155]
26	28.35 [1.116]	29.52 [1.162]	24.00 [.945]	26.83 [1.056]	27.99 [1.102]	2.84 [.112]	3.94 [.155]
30	32.35 [1.274]	33.52 [1.320]	28.00 [1.102]	30.83 [1.214]	31.99 [1.260]	2.84 [.112]	3.94 [.155]
34	36.35 [1.431]	37.52 [1.477]	32.00 [1.260]	34.83 [1.371]	35.99 [1.417]	2.84 [.112]	3.94 [.155]
40	42.35 [1.667]	43.52 [1.713]	38.00 [1.496]	40.83 [1.607]	41.99 [1.653]	2.84 [.112]	3.94 [.155]
44	46.35 [1.825]	47.52 [1.871]	42.00 [1.654]	44.83 [1.765]	45.99 [1.811]	2.84 [.112]	3.94 [.155]
50	52.35 [2.061]	53.52 [2.107]	48.00 [1.890]	50.83 [2.001]	51.99 [2.047]	2.84 [.112]	3.94 [.155]

METRIC [ENGLISH]

D	41488	JUN 20,2012 REVISED CURRENT RATING IN PERFORMANCE TABLE	LDS	SAN
C	39876	APR 18,2012 REMOVED 32 POS FROM TABLE ON SHT 5	LDS	SAN
B	34080	MAY 18,2011 ADDED 6.19 DIM ON SHT 2; REVISED & MOVED TABLE TO SHT 5	LDS	SF
A	30741	OCT 28,2010 INITIAL RELEASE	LDS	SF
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	L. SCHMIDT	DATE JUL 29,2010	MFG	DATE
CHKD		DATE	APPRV S FELDMAN	DATE AUG 09,2010
DIVISION		DIVISION CODE		
DO NOT SCALE DRAWING	SCALE 1 1	TOLERANCES EXCEPT AS NOTED	3M 3M Center St. Paul, MN 55144	
THIRD ANGLE PROJECTION		INCHES .00 ± .002 ± .0000 ±	© 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.	
INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS 0 ± .0 ± .00 ± .000 ±	TITLE 3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES	
MAX SURFACE ROUGHNESS 125 / ✓ □ ALL SURFACES ✗ MARKED ONLY		ANGLES ±1°	CAGE NUMBER D 78-5100-2359-7	REV. D
			MODEL	DET LISTS □ YES ✗ NO SHT 5 OF 5



О компании

ООО "ТрейдЭлектроникс" - это оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов. Реализуемая нашей компанией продукция насчитывает более полумиллиона наименований.

Благодаря этому наша компания предлагает к поставке практически не ограниченный ассортимент компонентов как оптовыми, мелкооптовыми партиями, так и в розницу.

Наличие собственной эффективной системы логистики обеспечивает надежную поставку продукции по конкурентным ценам в точно указанные сроки.

Срок поставки со стоков в **Европе и Америке – от 3 до 14 дней.**

Срок поставки из **Азии – от 10 дней.**

Благодаря развитой сети поставщиков, помогаем в поиске и приобретении экзотичных или снятых с производства компонентов.

Предоставляем спец цены на элементы для создания инженерных сэмплов.

Упорный труд, качественный результат дают нам право быть уверенными в себе и надежными для наших клиентов.

Наша компания это:

- Гарантия качества поставляемой продукции
- Широкий ассортимент
- Минимальные сроки поставок
- Техническая поддержка
- Подбор комплектации
- Индивидуальный подход
- Гибкое ценообразование

Наша организация особенно сильна в поставках модулей, микросхем, пассивных компонентов, ксайленсах (XC), EPF, EPM и силовой электроники.

Большой выбор предлагаемой продукции, различные виды оплаты и доставки, позволят Вам сэкономить время и получить максимум выгоды от сотрудничества с нами!

Перечень производителей, продукцию которых мы поставляем на российский рынок





Trade Electronics.ru

гарантия бесперебойности производства и
качества выпускаемой продукции

С удовольствием будем прорабатывать для Вас поставки всех необходимых компонентов по текущим запросам для скорейшего выявления групп элементов, по которым сотрудничество именно с нашей компанией будет для Вас максимально выгодным!

С уважением,

Менеджер отдела продаж ООО

«Трейд Электроникс»

Шишлаков Евгений

8 (495)668-30-28 доб 169

manager28@tradeelectronics.ru

<http://www.tradeelectronics.ru/>