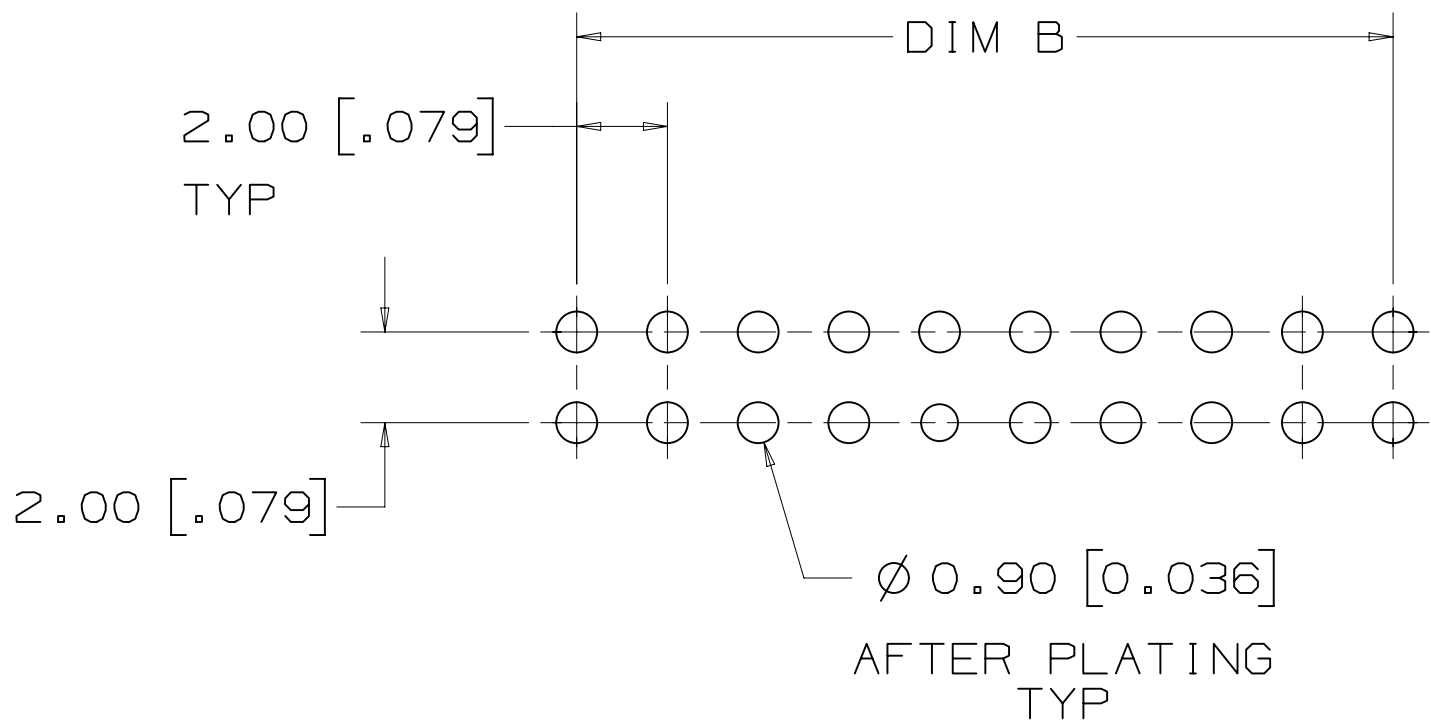
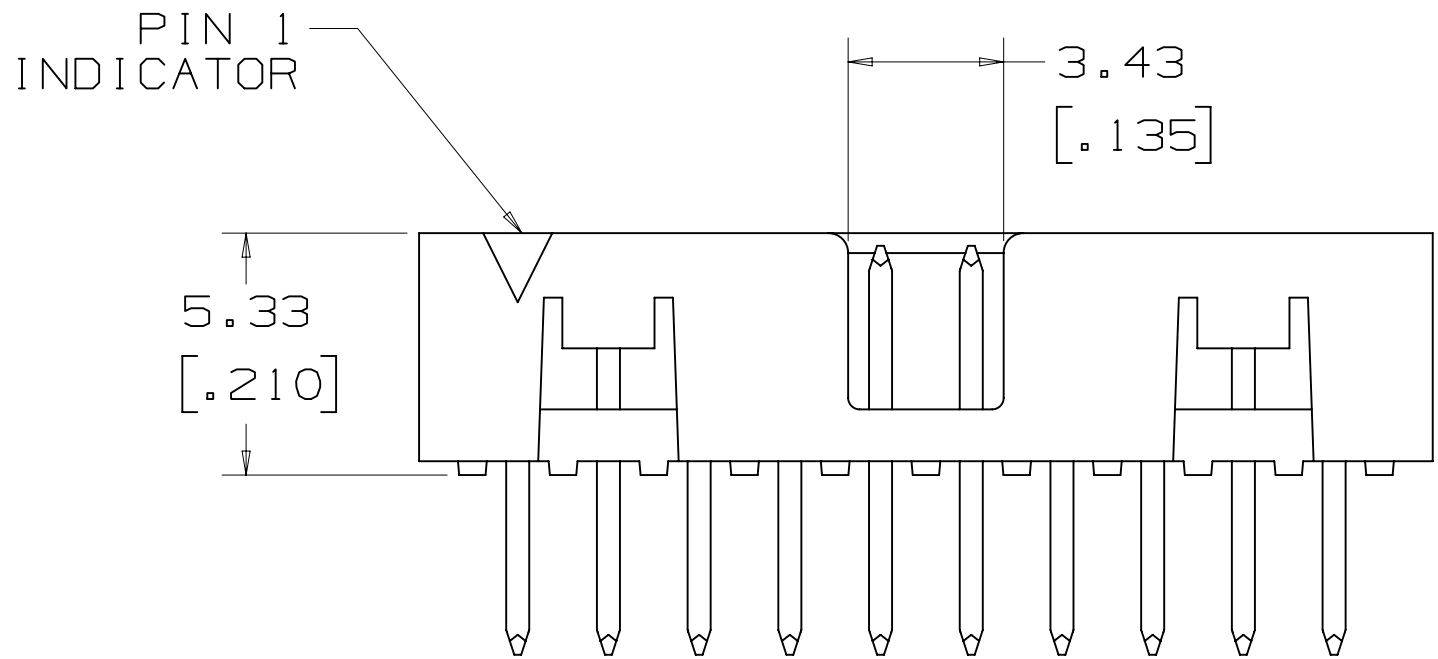
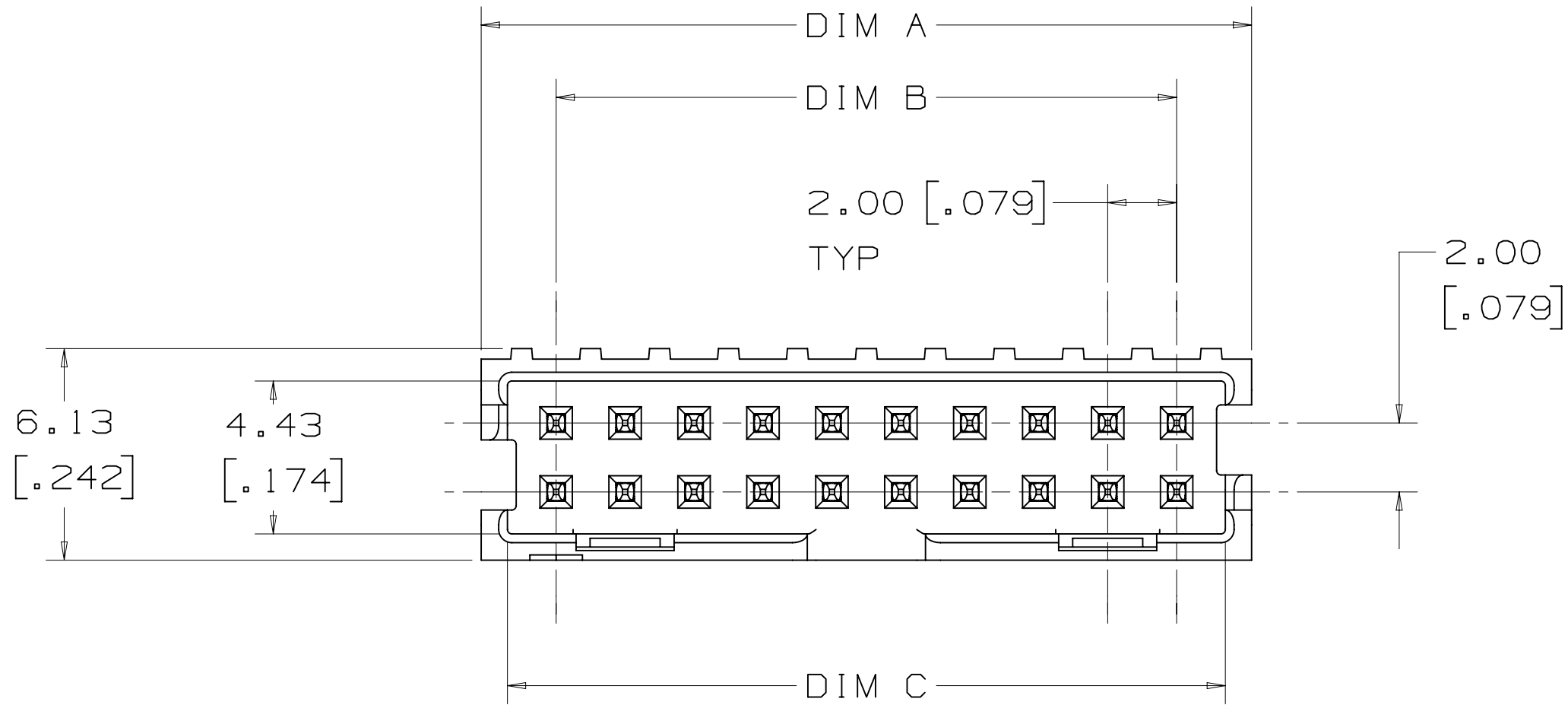
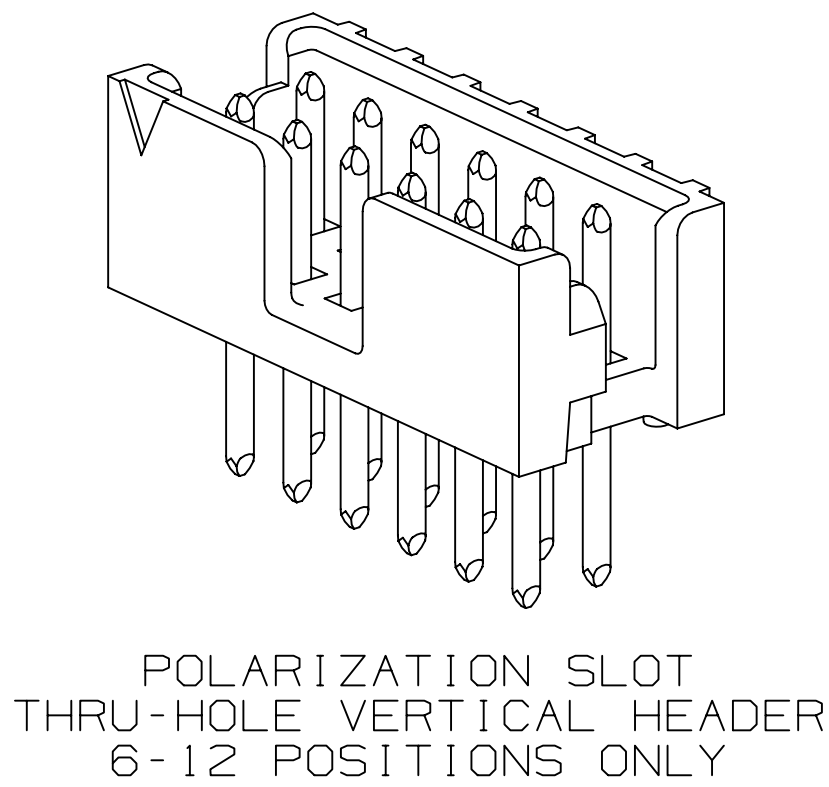


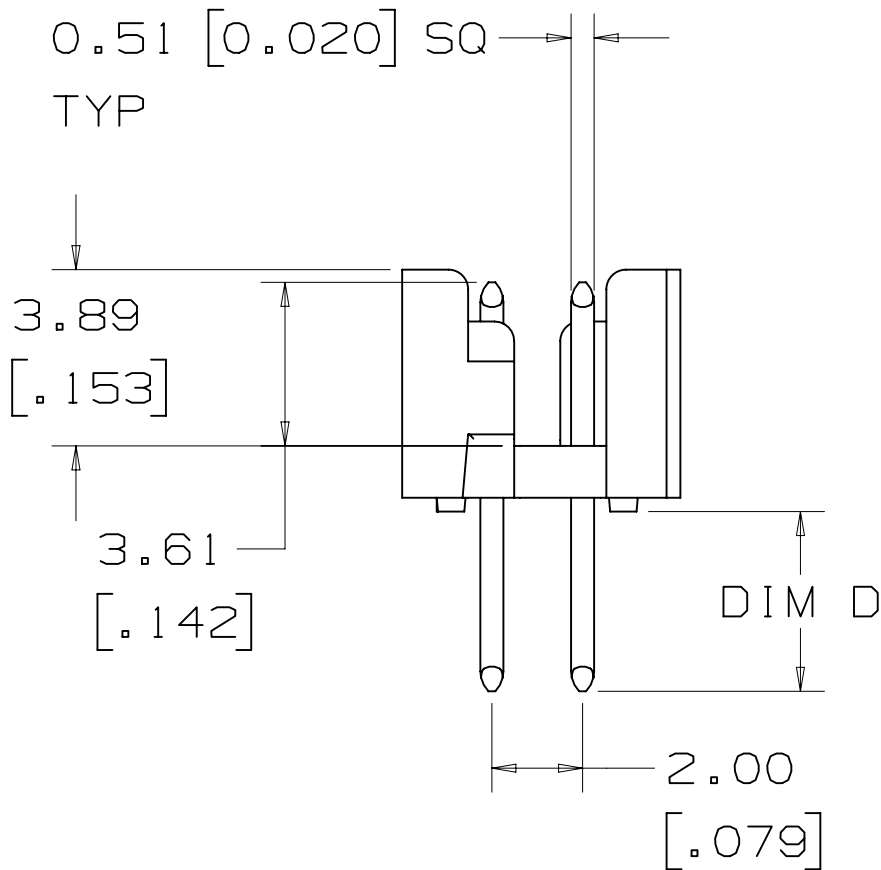
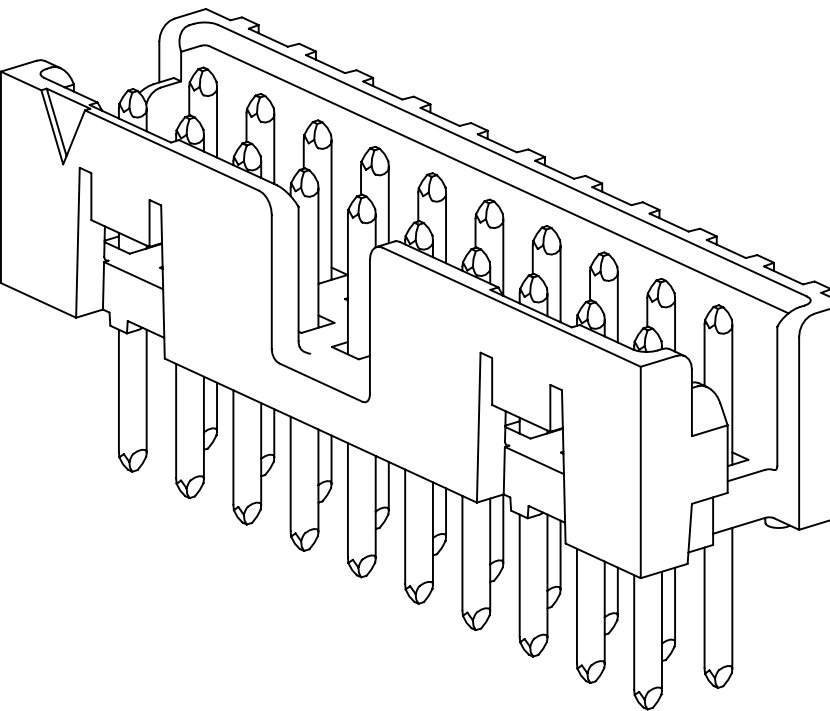
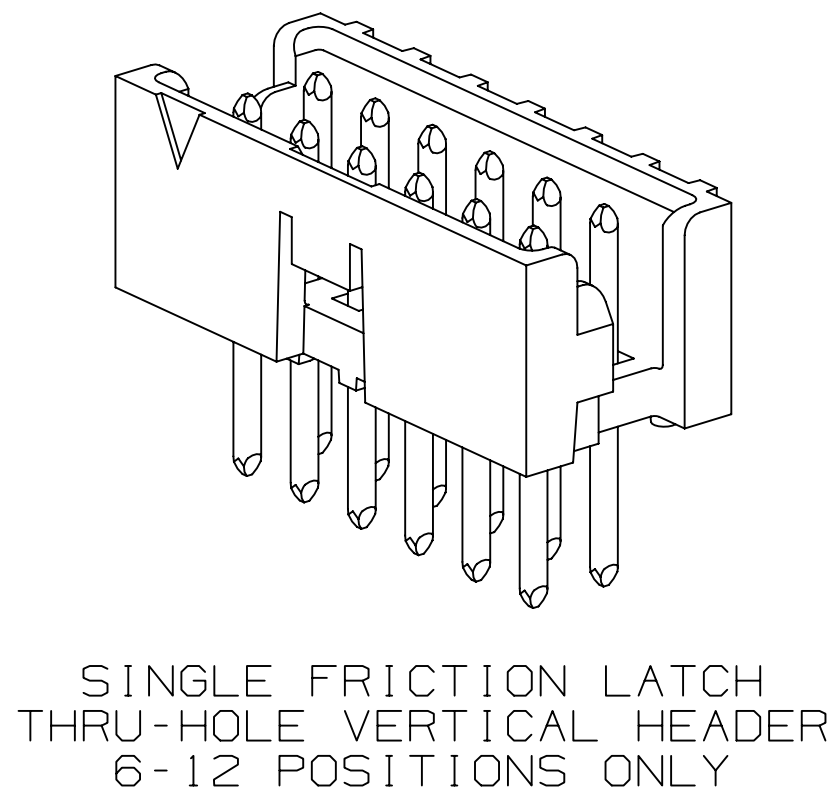
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length 3 and Extended Length 4



RECOMMENDED PCB HOLE PATTERN
TOLERANCE = 0.05 [.002]



2.00
[.079]



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
- 1

MATERIAL:
BODY: HIGH TEMPERATURE
GLASS FILLED LCP, BLACK
UL94V-0
CONTACTS: COPPER ALLOY
- 2

PLATING:
2.03-3.81 μm [80-150 μin]
NICKEL UNDERPLATE.
0.38 μm [15 μin] OR
0.76 μm [30 μin] AVG GOLD
ON WIPING AREA.
5.08 μm [200 μin] MIN
MATTE TIN ON SOLDER TAILS.
- 3

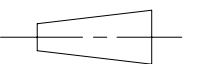
STANDARD LENGTH HEADERS
MATE WITH 3M™ SOCKETS,
158 SERIES (REFERENCE 3M
DRAWING 78-5100-2358-9).
- 4

EXTENDED LENGTH HEADERS
MATE WITH 3M™ SOCKETS,
870 SERIES.
- 5

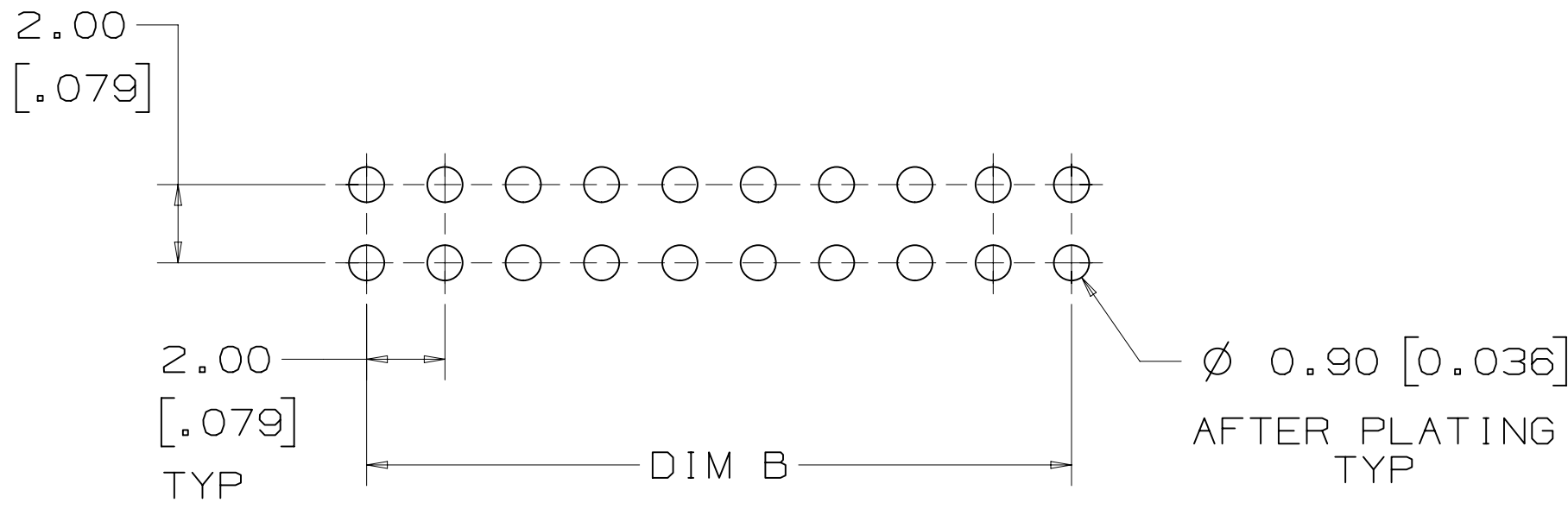
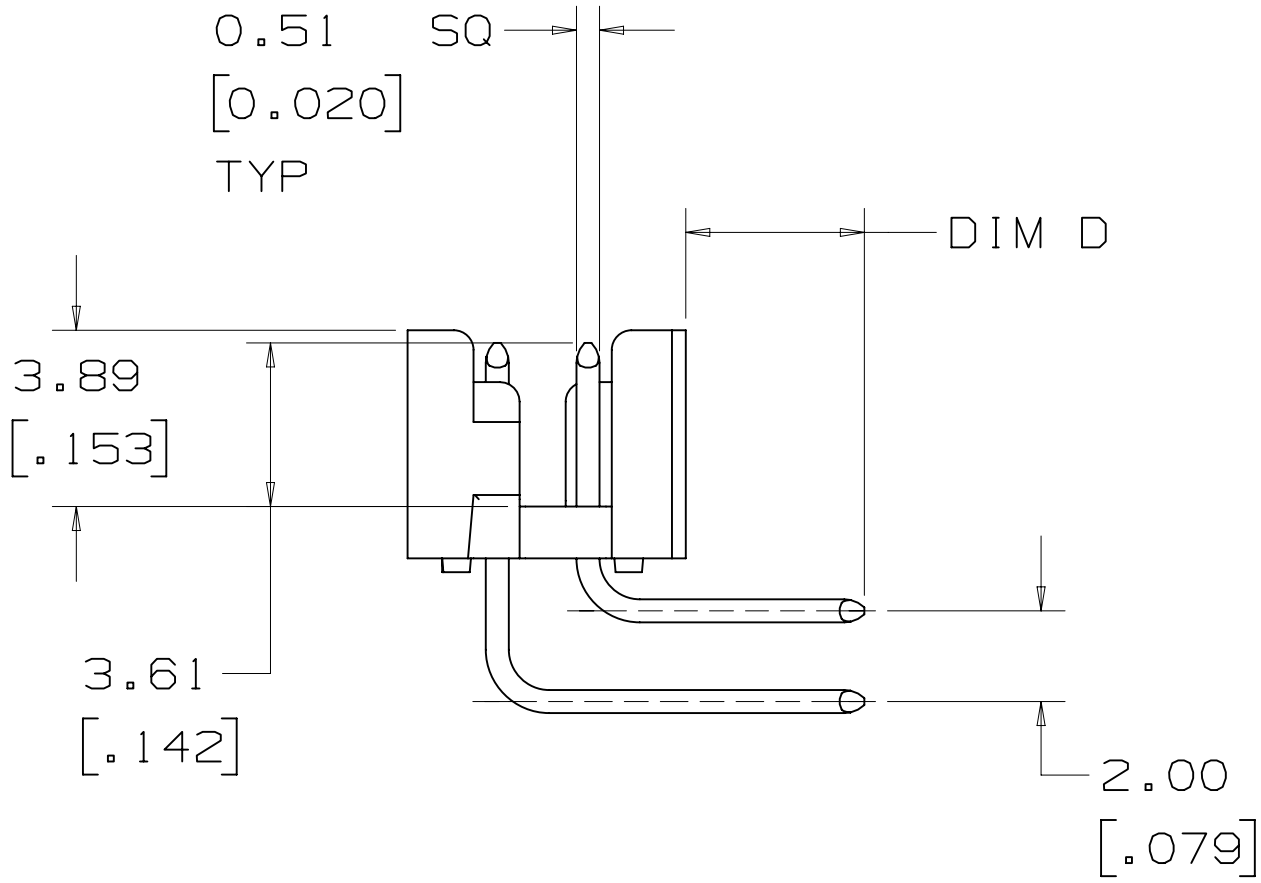
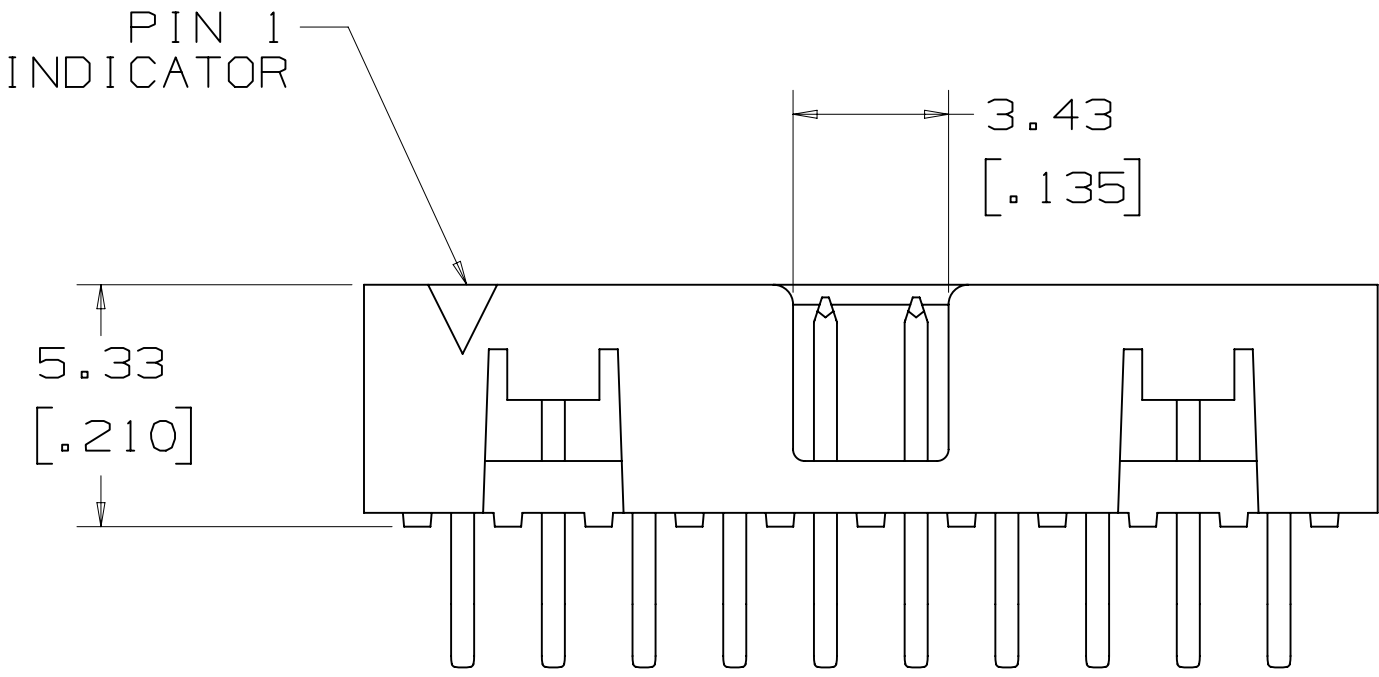
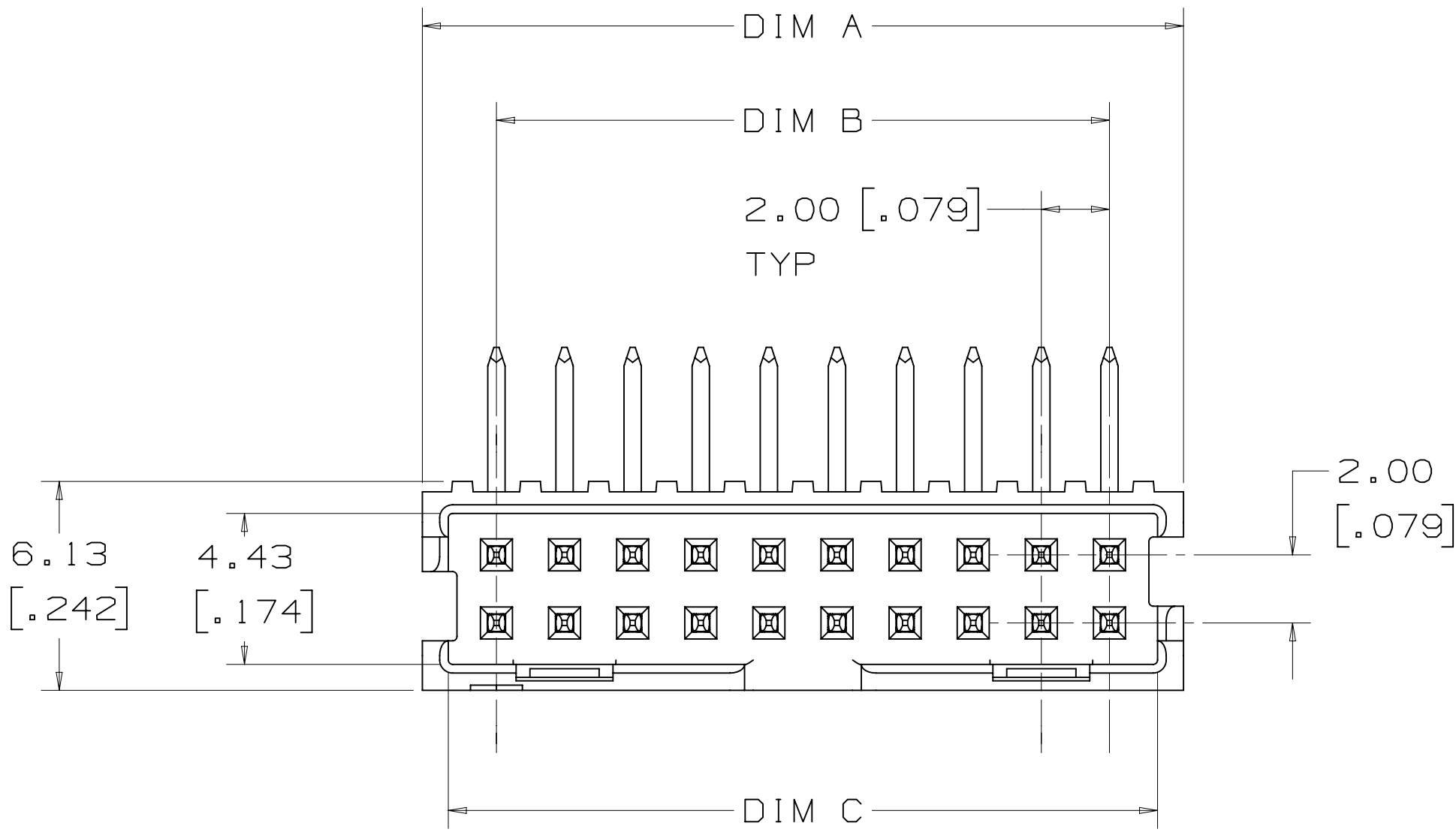
FOR PRODUCT
SPECIFICATIONS AND
WARRANTY INFORMATION SEE
3M 78-5102-0078-1.
- 6

SEE THE REGULATORY
INFORMATION APPENDIX (RIA)
IN THE "RoHS COMPLIANCE"
SECTION OF
WWW.3MCONNECTOR.COM FOR
COMPLIANCE INFORMATION
(RIA E1 & C1 APPLY).
- 7

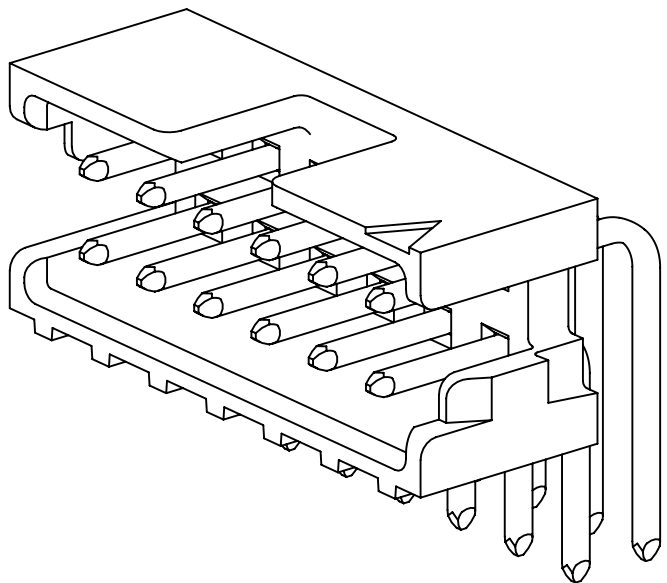
IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND
THAT CONTAINED IN THE
PRODUCT SPECIFICATION,
THE PRODUCT SPECIFICATION
TAKES PRECEDENT.

A 30741		OCT 28, 2010		LDS	SF	
INITIAL RELEASE						
REV		ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
L. SCHMIDT		DATE	JUL 29, 2010		MFG	DATE
CHKD		DATE	S FELDMAN		APPR	DATE
						AUG 09, 2010
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2010		
DO NOT SCALE DRAWING		SCALE 6 1		3M Center St. Paul, MN 55144		
		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 sales purposes. All rights reserved.		
THIRD ANGLE PROJECTION		INCHES		TITLE		
INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS		3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES		
MAX SURFACE ROUGHNESS 125		.00 ± .002 ± .000 ±		CAGE NUMBER		SIZE
ALL SURFACES MARKED ONLY		.00 ± .00 ± 0.13 .000 ±		DRAWING NO.		REV.
		ANGLES ± 1°		D 78-5100-2359-7		A
				MODEL		DET. LISTS
						YES ☒ NO
						SHT 1 OF

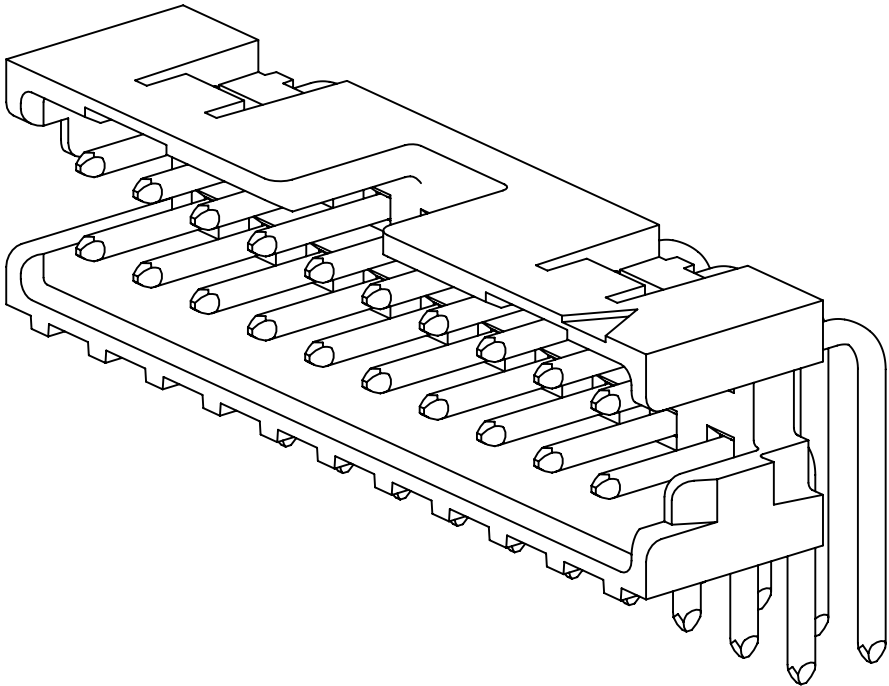
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length [3] and Extended Length [4]



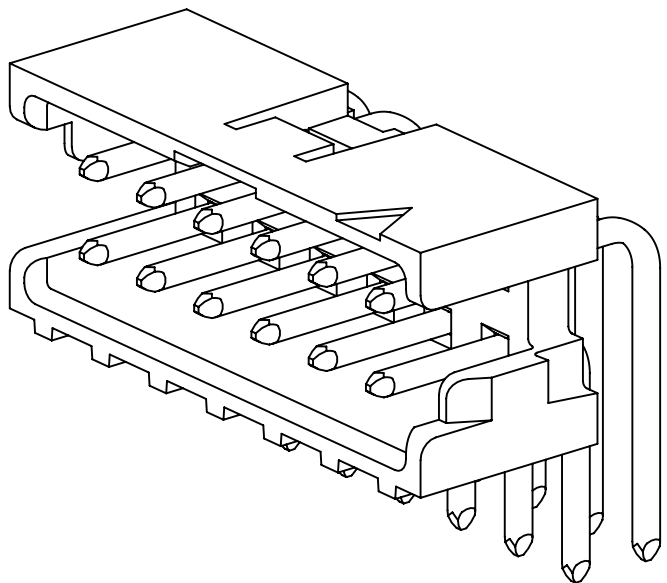
RECOMMENDED PCB HOLE PATTERN
TOLERANCE = ±0.05 [.002]



POLARIZATION SLOT
RIGHT ANGLE HEADER
6-12 POSITIONS ONLY



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



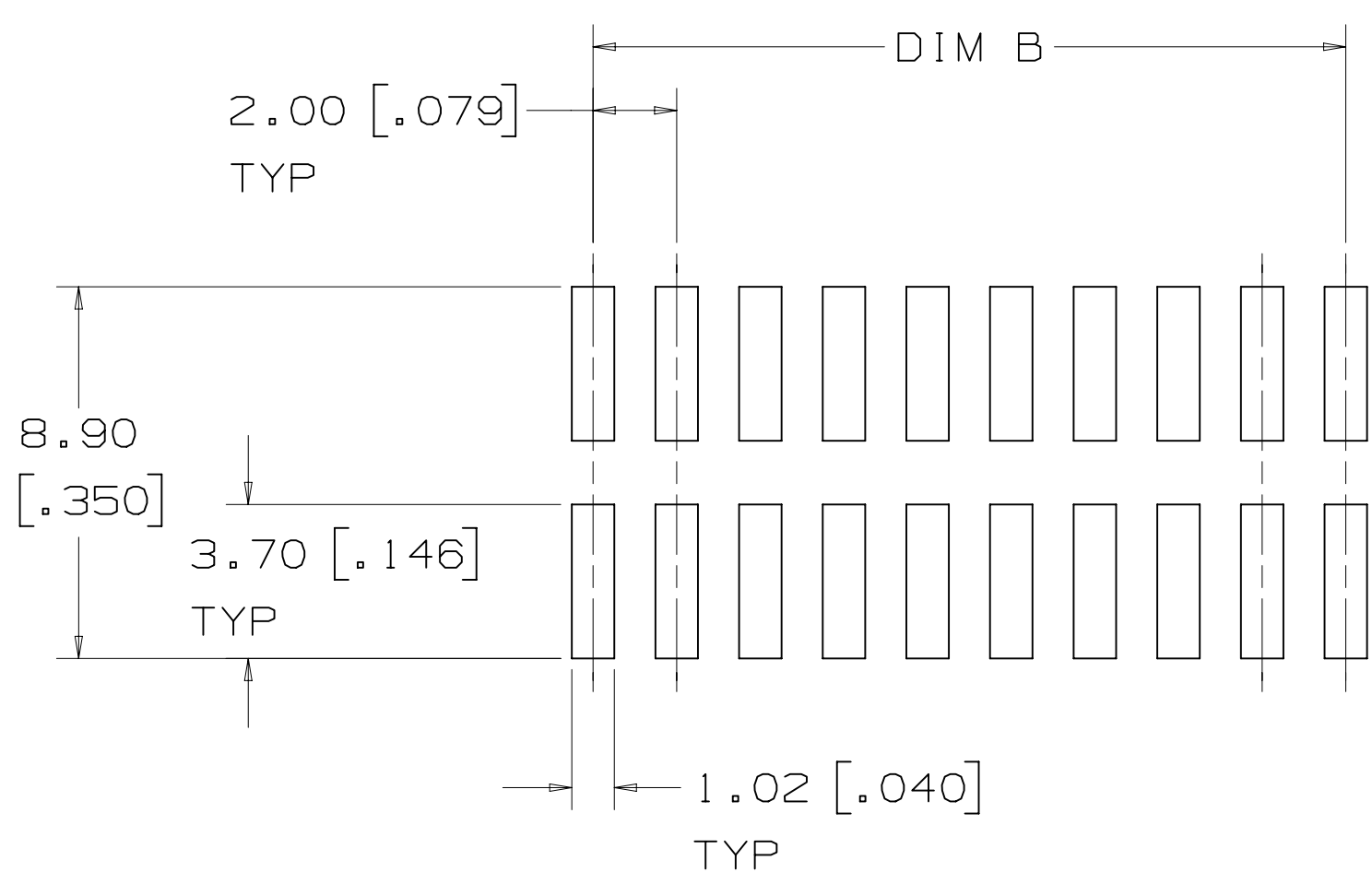
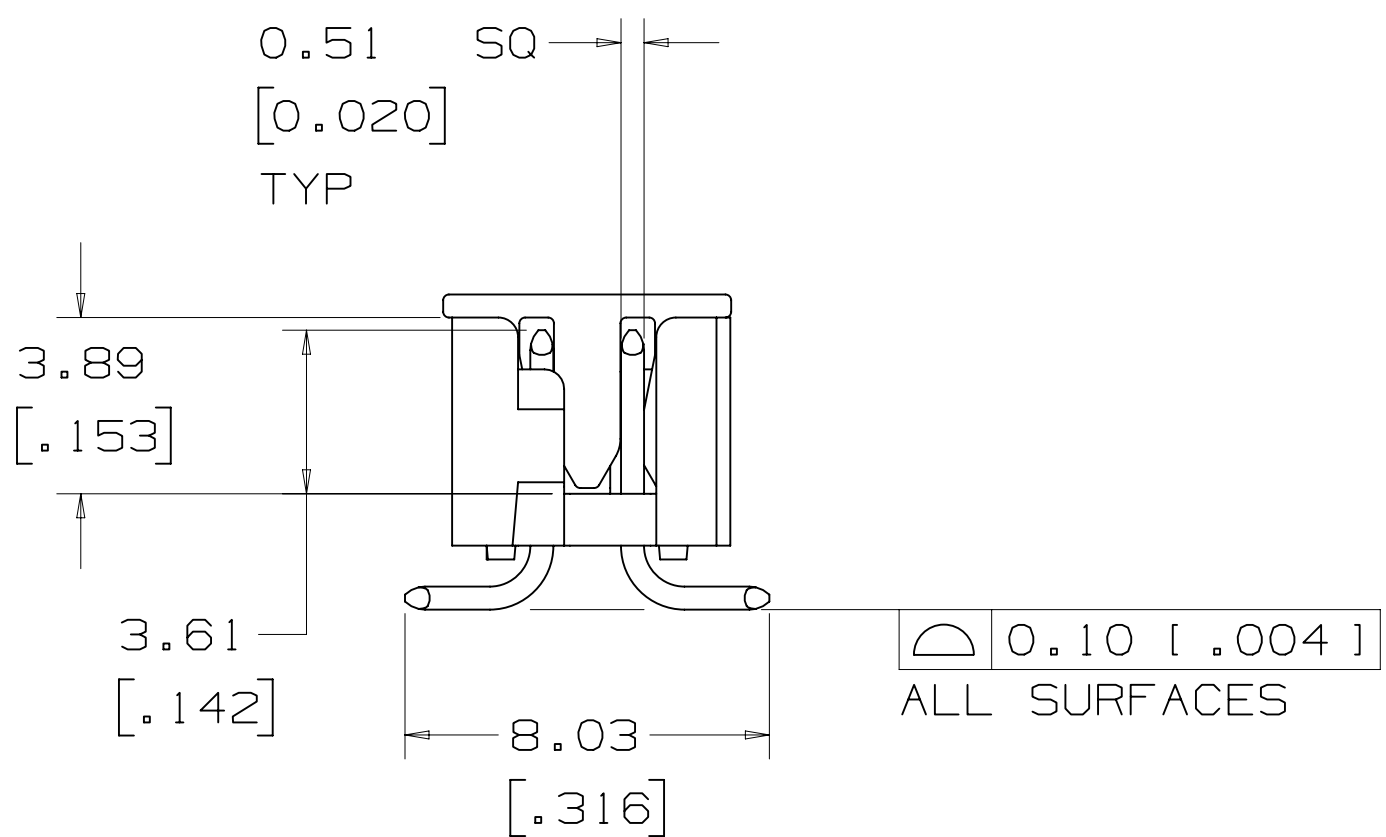
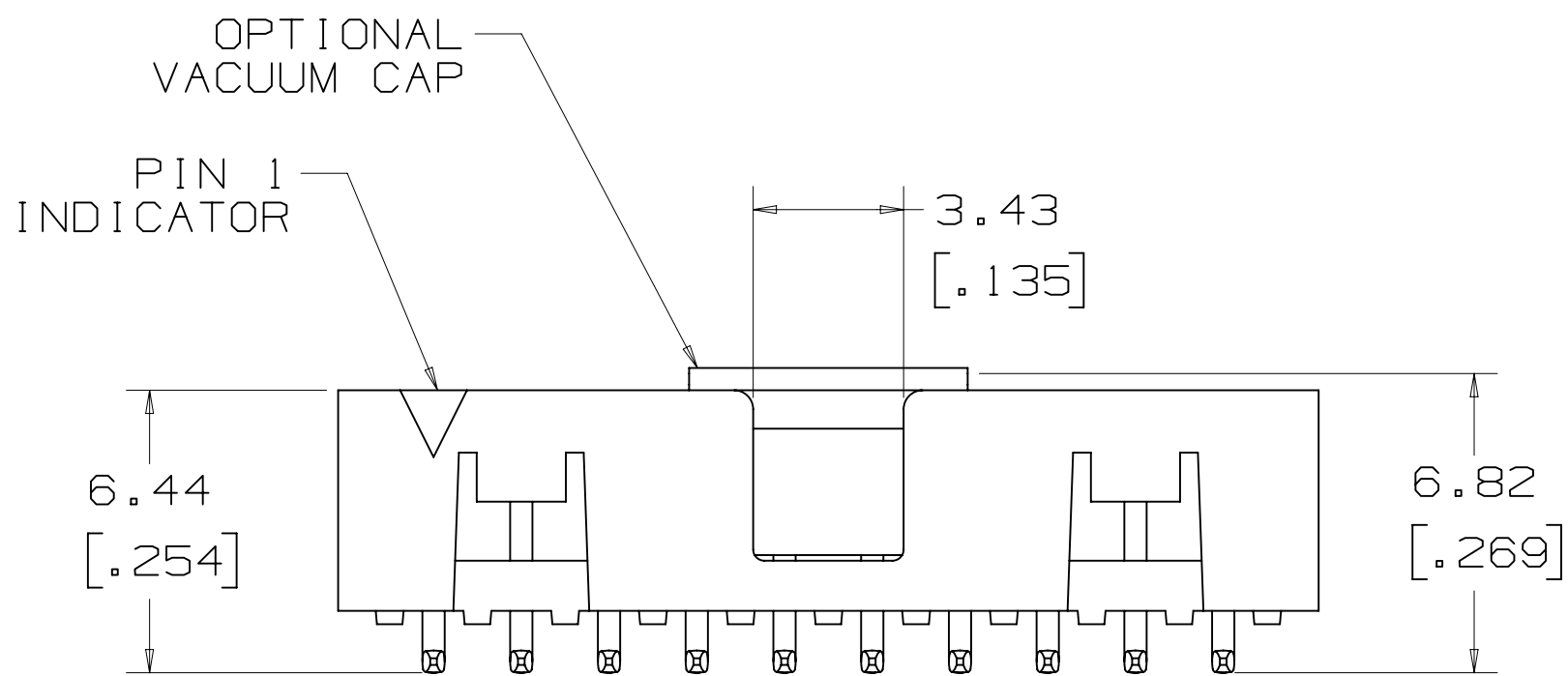
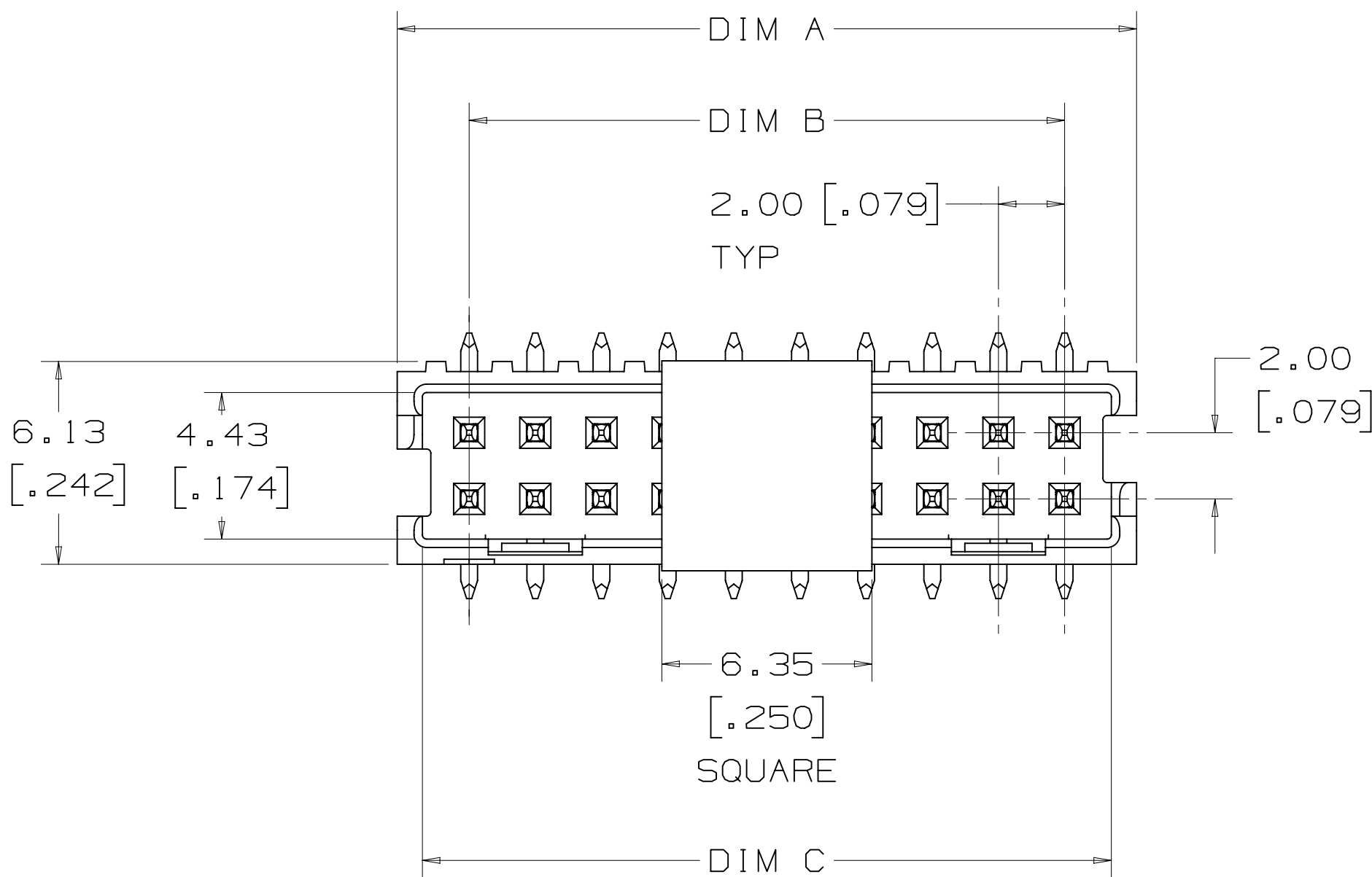
SINGLE FRICTION LATCH
RIGHT ANGLE HEADER
6-12 POSITIONS ONLY

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

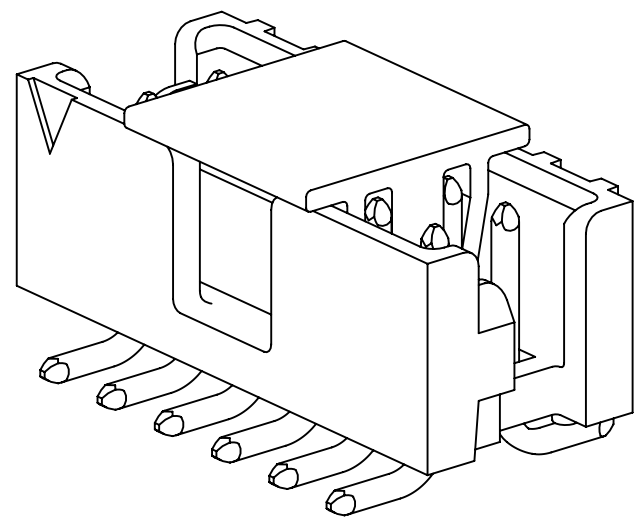
METRIC [ENGLISH]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
159-159-159				L. SCHMIDT		DATE	JUL 29, 2010	MFG	DATE
DIVISION		DIVISION CODE		CHKD		DATE	JUL 29, 2010	APPR	DATE
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		125 / ALL SURFACES		ANGLES ±1°		ANGLES ±1°			
CAGE NUMBER		DRAWING NO.		REV.		REV.			
125		D 78-5100-2359-7		A		A			
MODEL		DET		LISTS		YES NO SHT 2 OF 4			

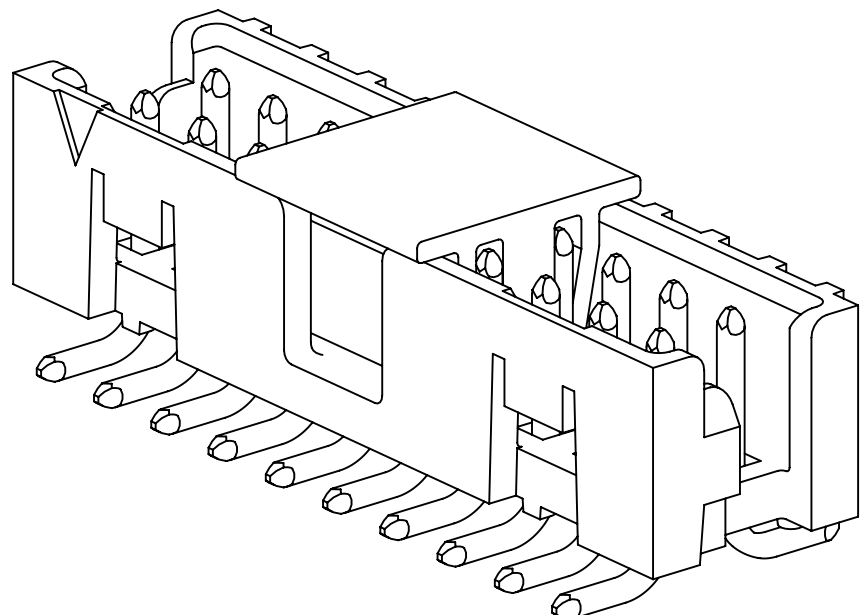
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length [3] and Extended Length [4]



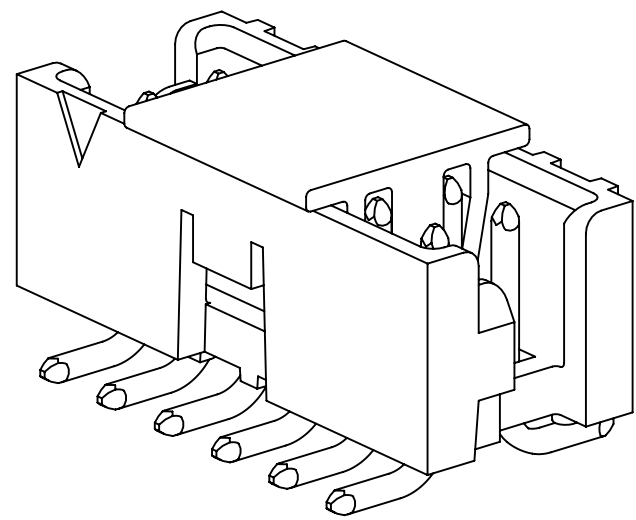
RECOMMENDED PCB PAD PATTERN
TOLERANCE = ±0.08 [0.003]



POLARIZATION SLOT
SURFACE MOUNT HEADER
6-12 POSITIONS ONLY



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



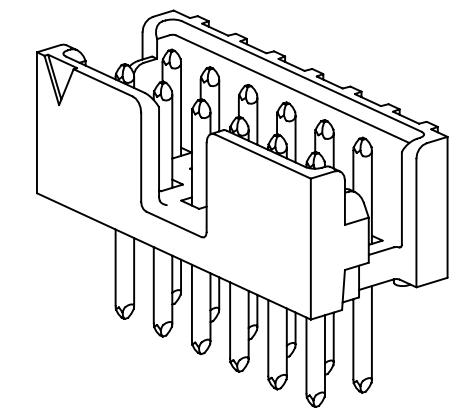
SINGLE FRICTION LATCH
SURFACE MOUNT HEADER
6-12 POSITIONS ONLY

REFERENCE TABLE ON SHEET 4
FOR AVAILABLE POSITIONS

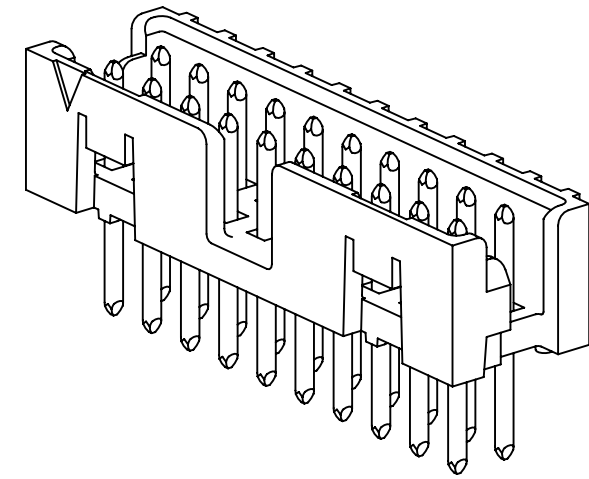
METRIC [ENGLISH]

DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DIST		L. SCHMIDT		DATE		JUL 29, 2010		MFG		DATE		APR 09, 2010	
DIVISION		DIVISION CODE		APPR		S. FELDMAN		DATE		AUG 09, 2010		REV.	
DO NOT SCALE DRAWING		SCALE 4/1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS		CAGE NUMBER		DRAWING NO.	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS		0.00 ± 0.000		0.00 ± 0.000		MODEL		DET	
125/		ALL SURFACES		ANGLES ±1°		YES		NO		SHT 3 OF 4		REV.	
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		D 78-5100-2359-7		REV.	
A		ECO		DATE		JUL 29, 2010		MFG		DATE		APR 09, 2010	

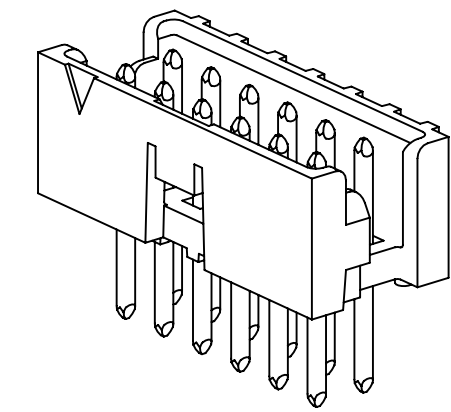
STANDARD LENGTH HEADERS
ARE AVAILABLE



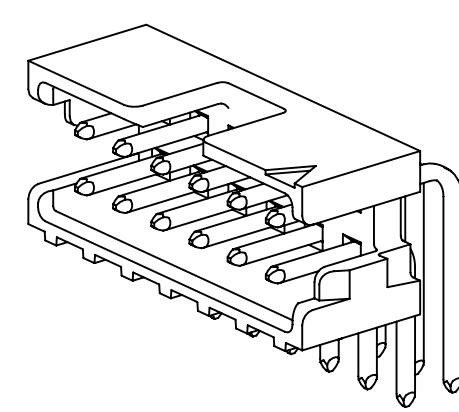
STANDARD LENGTH,
POLARIZATION SLOT,
VERTICAL HEADER
6-12 POSITIONS ONLY



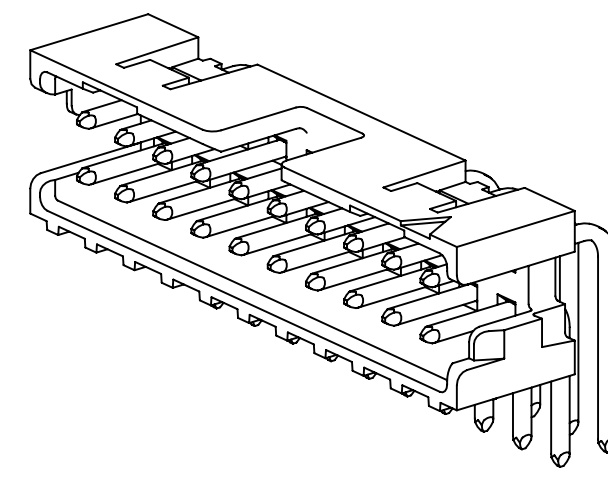
STANDARD LENGTH,
POLARIZATION SLOT,
DUAL FRICTION LATCHES,
VERTICAL HEADER
14-50 POSITIONS



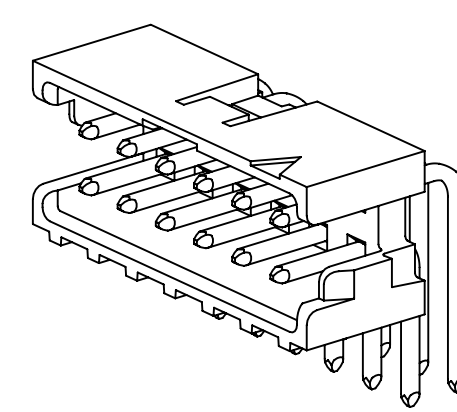
STANDARD LENGTH,
SINGLE FRICTION LATCH,
VERTICAL HEADER
6-12 POSITIONS



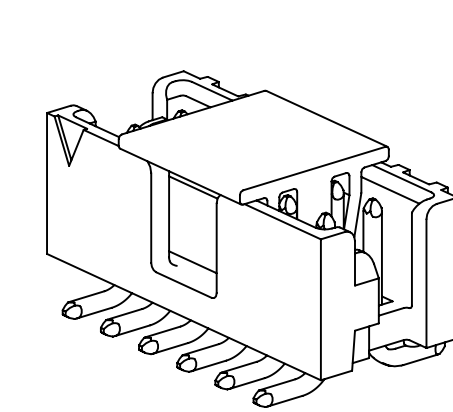
STANDARD LENGTH,
POLARIZATION SLOT,
RIGHT ANGLE HEADER
6-12 POSITIONS



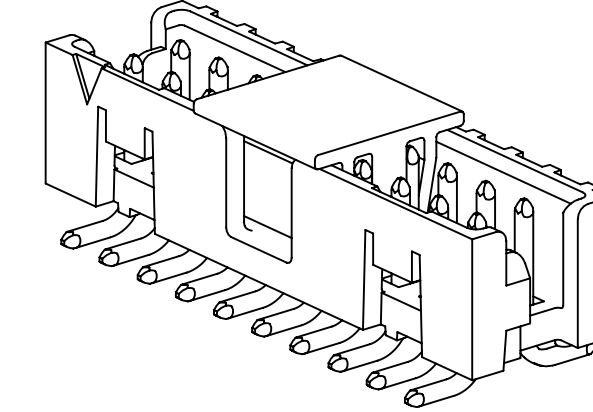
STANDARD LENGTH,
POLARIZATION SLOT,
DUAL FRICTION LATCHES,
RIGHT ANGLE HEADER
14-50 POSITIONS



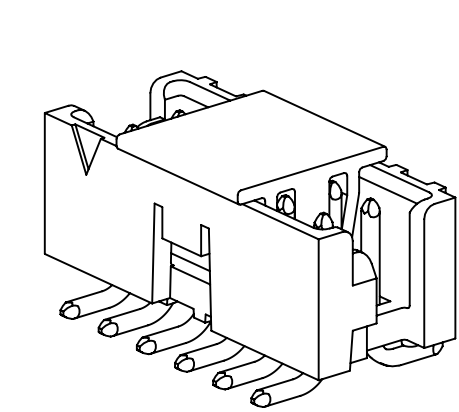
STANDARD LENGTH,
SINGLE FRICTION LATCH,
RIGHT ANGLE HEADER
6-12 POSITIONS



STANDARD LENGTH,
POLARIZATION SLOT,
SURFACE MOUNT HEADER
6-12 POSITIONS

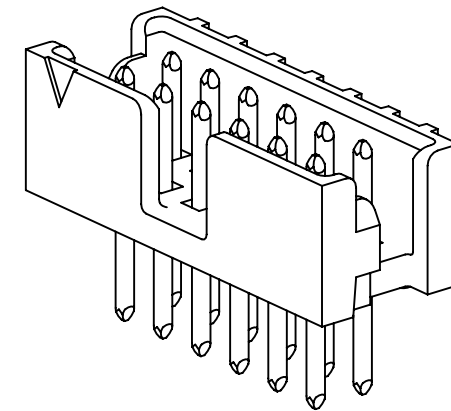


STANDARD LENGTH,
POLARIZATION SLOT,
DUAL FRICTION LATCHES,
SURFACE MOUNT HEADER
14-50 POSITIONS

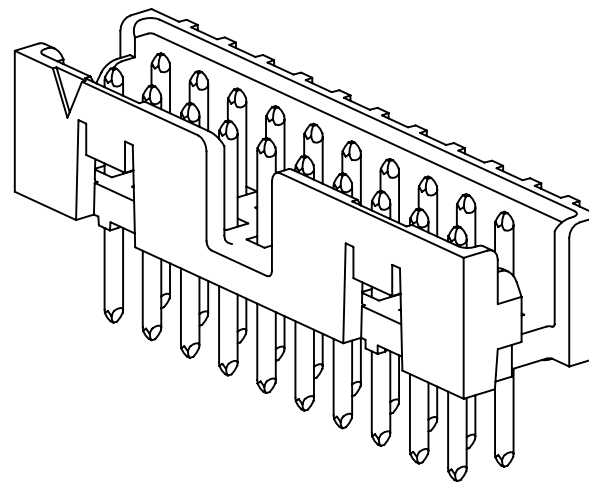


STANDARD LENGTH,
SINGLE FRICTION LATCH,
SURFACE MOUNT HEADER
6-12 POSITIONS

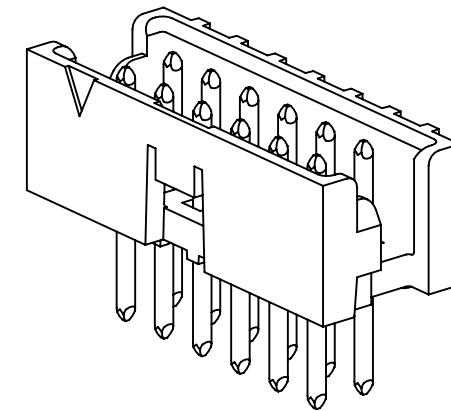
CALL 3M INTERCONNECT SOLUTIONS
AT 800-225-5373 FOR AVAILABILITY
OF EXTENDED LENGTH HEADERS



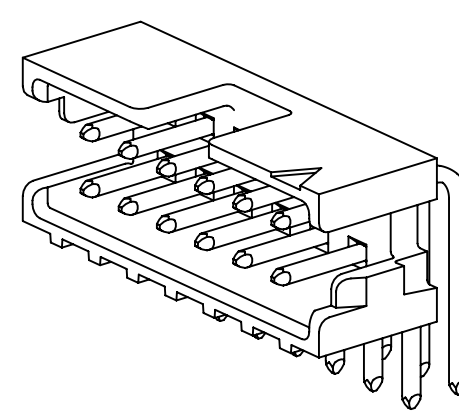
EXTENDED LENGTH,
POLARIZATION SLOT,
VERTICAL HEADER
6-12 POSITIONS



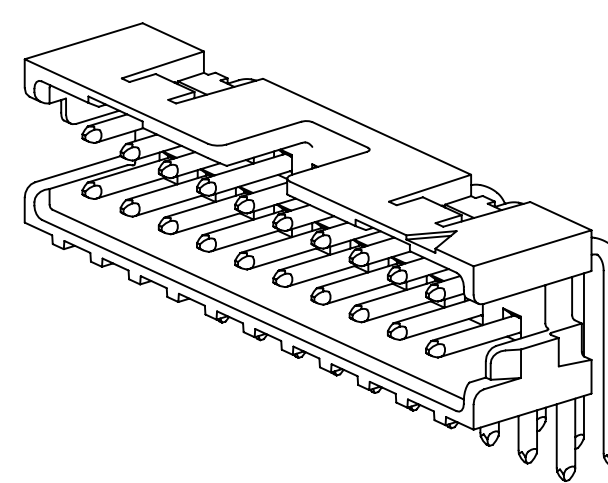
EXTENDED LENGTH,
POLARIZATION SLOT,
DUAL FRICTION LATCHES,
VERTICAL HEADER
14-50 POSITIONS



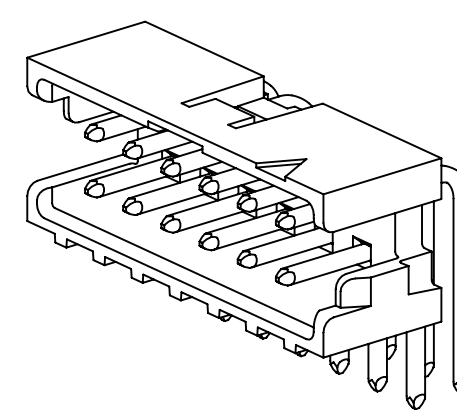
EXTENDED LENGTH,
SINGLE FRICTION LATCH,
VERTICAL HEADER
6-12 POSITIONS



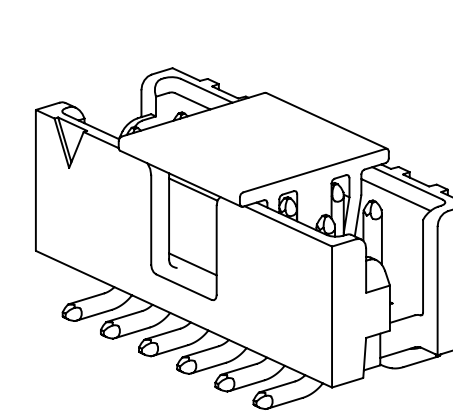
EXTENDED LENGTH,
POLARIZATION SLOT,
RIGHT ANGLE HEADER
6-12 POSITIONS



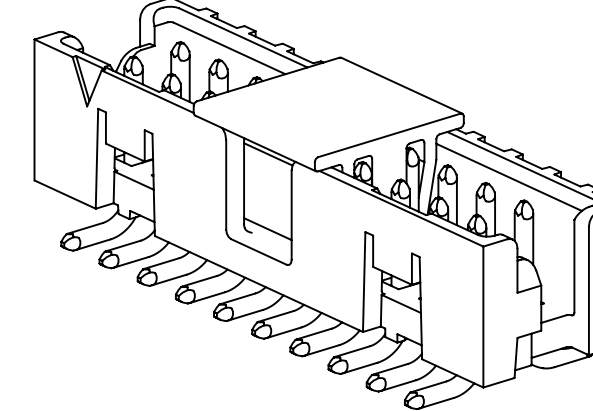
EXTENDED LENGTH,
POLARIZATION SLOT,
DUAL FRICTION LATCHES,
RIGHT ANGLE HEADER
14-50 POSITIONS



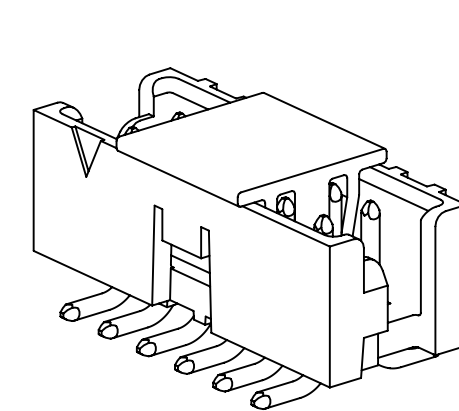
EXTENDED LENGTH,
SINGLE FRICTION LATCH,
RIGHT ANGLE HEADER
6-12 POSITIONS



EXTENDED LENGTH,
POLARIZATION SLOT,
SURFACE MOUNT HEADER
6-12 POSITIONS



EXTENDED LENGTH,
POLARIZATION SLOT,
DUAL FRICTION LATCHES,
SURFACE MOUNT HEADER
14-50 POSITIONS



EXTENDED LENGTH,
SINGLE FRICTION LATCH,
SURFACE MOUNT HEADER
6-12 POSITIONS

TIER 2 - BETTER

TIER 2 - BETTER

1592XX-XXXX

TIER 2 = BETTER 0.38 μ m [15 μ in] 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

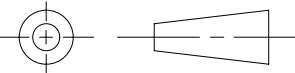
0 = POLARIZATION SLOT AND DUAL FRICTION LATCHES (14-50 POSITIONS ONLY)

1 = POLARIZATION SLOT (6-12 POSITIONS ONLY)

2 = SINGLE FRICTION LATCH (6-12 POSITIONS ONLY)

NUMBER OF POSITIONS	SHROUDED BOX HEADER						
	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	16.36 [.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]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DISTRIBUTION CODES				DRFT L. SCHMIDT	DATE JUL 29, 2010		AFG	DATE	
DIVISION				CHKD	DATE		APPROV S FELDMAN	DATE AUG 09, 2010	
DO NOT SCALE DRAWING 				SCALE $\frac{4}{1}$		TOLERANCES EXCEPT AS NOTED .000 ± .000 ± .000 ± .000 ±		DIVISION CODE INCHES .000 ± .000 ± .000 ± .000 ±	
THIRD ANGLE PROJECTION				INTERPRET PER ASME Y14.5 - 1994		3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES			
MAX SURFACE ROUGHNESS 125 ✓ ☐ ALL SURFACES ☒ MARKED ONLY				CAGE NUMBER 78-5100-2359-7		SIZE D		DRAWING NO. 78-5100-2359-7	
ANGLES ± 1°				MODEL		DET. S. FLYES		SHT 4 OF 4	



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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