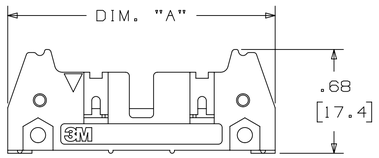
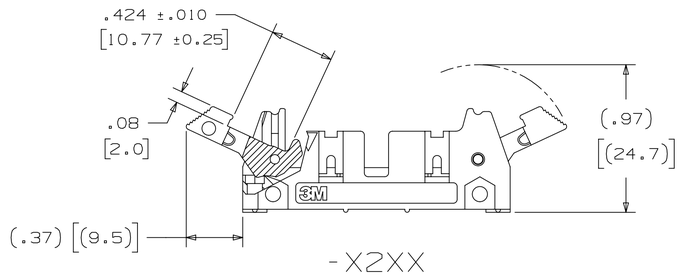
3M™ THREE-WALL HEADER, 3000 SERIES

.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



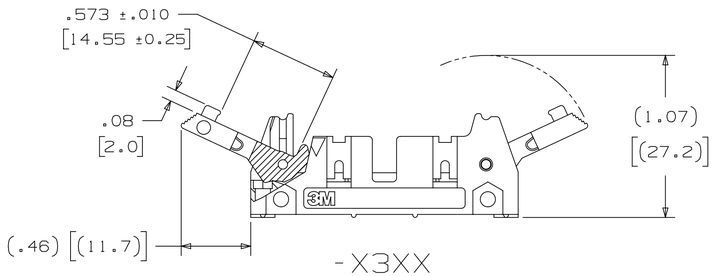
-X0XX

HEADER WITHOUT LATCH EJECTOR



-X2XX

HEADER WITH SHORT LATCH EJECTOR
FOR 3M SOCKETS WITHOUT STRAIN RELIEF



-X3XX

HEADER WITH LONG LATCH EJECTOR
FOR 3M SOCKETS WITH STRAIN RELIEF

* MILITARY (WITH 3M'S N3518 POLARIZING KEY) AND CENTERBUMP POLARIZATION.
* LOW PROFILE.
* OPTIONAL EJECTOR LATCHES.
* MOUNTING HOLES FOR SECURING HEADER TO BOARD.
* THREE WALL SHROUD PROVIDES DESIGN FLEXIBILITY.
* STRAIGHT, RIGHT ANGLE. SOLDER TAIL OPTIONS.
* OPTIONAL POLARIZING POSTS AVAILABLE.
* HIGH TERMERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS.
* SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" TECHNIQUES.

[2] PHYSICAL:

INSULATOR:	
MATERIAL:	HIGH TEMPGLASS FILLED POLYESTER (PCT)
FLAMMABILITY:	UL94V-0
COLOR:	BLACK
CONTACT:	
MATERIAL:	COPPER ALLOY
PLATING:	
UNDER PLATING:	50μ"-150μ" [1.27μm-3.81μm] NICKEL-OVERALL
WIPING AREA:	30μ" [0.76μm] AVG. GOLD
SOLDER TAILS:	(SEE ORDERING INFORMATION)
MARKINGS:	3M LOGO, PART IDENTIFICATION NUMBER AND ORIENTATION TRIANGLE

[2] ELECTRICAL:

CURRENT RATING:	5.00A, 1 CONTACT POWERED 3.00A, 6 CONTACTS POWERED 1.75A, ALL CONTACTS POWERED RATING CONDITIONS: EIA-364-070 METHOD 2, 30°C MAXIMUM TEMPERATURE RISE, 20% DERATED. REFERENCE APPROPRIATE 3M PRODUCT SPECIFICATION FOR DETAILED CURRENT DERATING CURVES.
INSULATION RESISTANCE:	>1 X $10^9\Omega$ AT 500 V_{DC}
WITHSTANDING VOLTAGE:	1,000V_{RMS} AT SEA LEVEL

[2] ENVIRONMENTAL:

TEMPERATURE RATING:	-55°C TO 105°C
PROCESS RATING:	260°C, PER J-STD-020C, SINGLE PASS
MOISTURE SENSITIVITY LEVEL:	1 (PER J-STD-020C SINGLE PASS)

NOTES

1. REGULATORY INFORMATION: VISIT 3M.com/regs
2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
3. NOTCHES A & C WILL ACCOMODATE 3M POLARIZING KEY: N3518).
4. MOUNTING HARDWARE: FROM SOLDER SIDE OF PC BOARD USE #4-24 THREAD CUTTING SCREW (3M PART #3341-5) WITH Ø.116 [2.95] MOUNTING HOLE. FOR RIGHT ANGLE VERSION ONLY: #2-56 BOLT AND NUT (3M PART #3341-6) WITH Ø.106 [2.69] MOUNTING HOLE MAY BE USED.

ORDERING INFORMATION

X3XXX-XXXXXX

- N= HIGH TEMP BLACK (PCT)/(RB PLATING REQ'D)
- 3M PART NUMBER: (SEE TABLE 1)
- PIN CONFIGURATION: 1 = RIGHT ANGLE SOLDER TAILS; 2 = STRAIGHT SOLDER TAILS
- LATCH/EJECTOR SYSTEM: 0 = NO LATCH/EJECTOR INSTALLED; 2 = SHORT ROLL PIN LATCH/EJECTORS; 3 = LONG ROLL PIN LATCH/EJECTORS
- TAIL: 02 = FOR .062 [1.57] THICK BOARD; 03 = FOR .094 TO .125 [2.39 TO 3.18] THICK BOARD
- PLATING: RB = 200μ" [5.08μm] MATTE TIN TAILS

DIMENSIONS: INCHES [MM]
[MM] IS REF. ONLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
L	115955	MAY 08,2024 REMOVE 05 WWT TAILS	JNC	FJR
K	97909	JUN 22,2021 REVISED ORDERING INFO	JNC	SAN
J	93619	JAN 07,2021 REMOVE TIN LEAD PLATE AND KINK TAILS	JNC	SAN
H	60056	MAR 06,2015 REVISE ORDERING NUMBER	JNC	RS
G	56068	AUG 05,2014 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE: NEXT ASSEMBLY
ACCESS CODES:
DRFT: CASTIGLIONE — DATE: AUG 05,2014 — MFG: — DATE:
CHKD: — DATE: — APPVL: R. SCHERER — DATE: SEP 05,2014
DIVISION: Interconnect Solutions — DIVISION CODE: EMSD
DO NOT SCALE DRAWING — SCALE: — TOLERANCES EXCEPT AS NOTED
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 2018
MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY
INCHES: .0 ±.1; .00 ±.01; .000 ±.005; .0000 ±.0002
MILLIMETERS: 0 ±; .0 ±; .00 ±; .000 ±
ANGLES ±

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3M Center, St. Paul, MN 55144

TITLE: HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT AND RA

CAGE NUMBER — SIZE: D — DRAWING NO.: 78-5100-0771-5 — REV.: L
MODEL: 3400 — DET. LISTS ☐ YES ☒ NO — SHT 1 OF 5

78-5100-0771-5 L (DRAWING NUMBER / REVISION)

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INTERCONNECT SOLUTIONS
http://www.3M.com/interconnect

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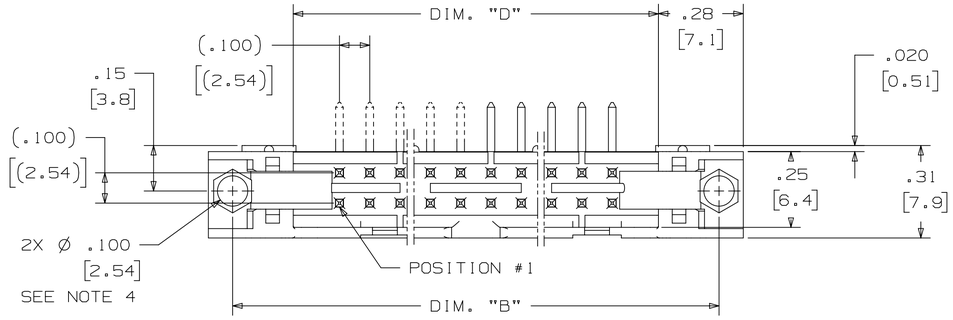
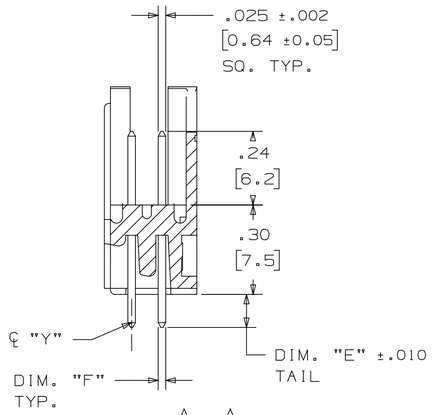
UL FILE NO: E68080

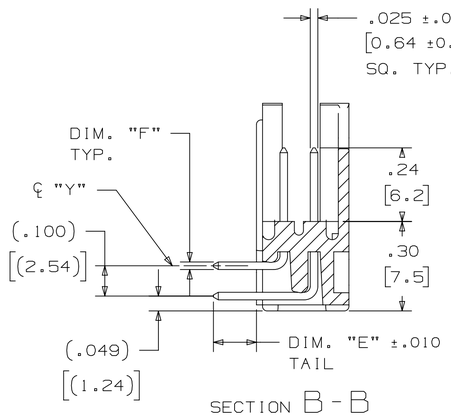
3M™ THREE-WALL HEADER, 3000 SERIES

.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE





SECTION A - A
(STRAIGHT VERSION)



SECTION B - B
(RIGHT ANGLE VERSION)

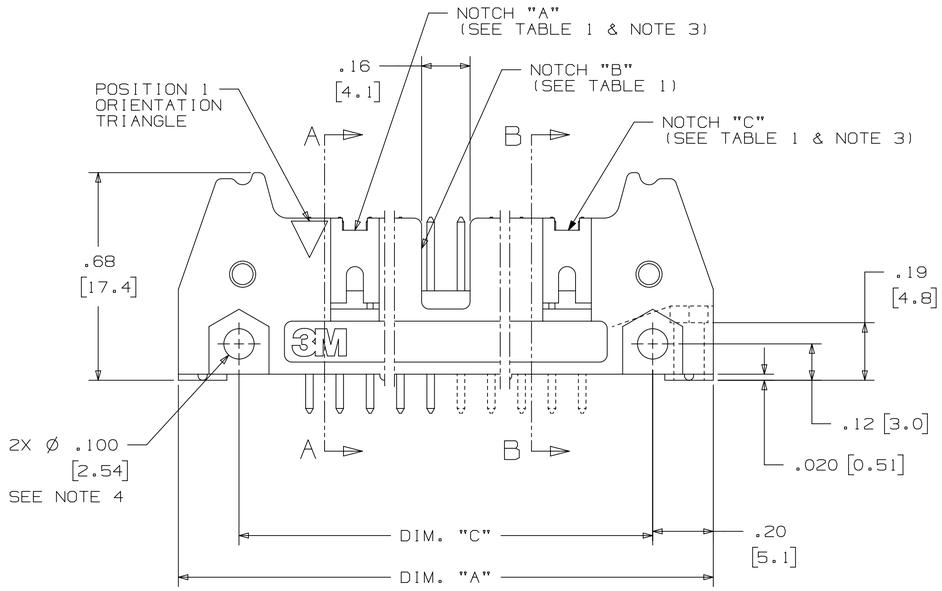


TABLE 1							
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	PIN QTY.
10	3793	1.26 [32.1]	1.105 [28.04]	.865 [21.97]	.71 [18.0]	BC	10
14	3314	1.46 [37.2]	1.305 [33.12]	1.065 [27.05]	.91 [23.1]	BC	14
16	3408	1.56 [39.7]	1.405 [35.66]	1.165 [29.59]	1.01 [25.6]	ABC	16
20	3428	1.76 [44.8]	1.604 [40.74]	1.365 [34.67]	1.21 [30.7]	ABC	20
26	3429	2.06 [52.4]	1.905 [48.36]	1.665 [42.29]	1.51 [38.3]	ABC	26
34	3431	2.46 [62.6]	2.305 [58.52]	2.065 [52.45]	1.91 [48.5]	ABC	34
40	3432	2.76 [70.2]	2.605 [66.14]	2.365 [60.07]	2.21 [56.1]	ABC	40
50	3433	3.26 [82.9]	3.105 [78.84]	2.865 [72.77]	2.71 [68.8]	ABC	50
60	3372	3.76 [95.6]	3.605 [91.54]	3.365 [85.47]	3.21 [81.5]	ABC	60
64	3764	3.96 [100.7]	3.805 [96.62]	3.565 [90.55]	3.41 [86.6]	ABC	64

TABLE 2						
3M PART NUMBER SUFFIX	CONTACT TAIL	DIM. "E"	PIN CROSS SECTION			DIM. "G"
			DIM. "F"	DIAGONALS	CORNER RADII	
-1XX2	.062 [1.57] THICK PC BOARD	.112 [2.84]	.0245+/-.0005 [.622]	.028+/-.001 [.71]	.0075 REF. [.191]	.035+/-.003 [.89] SEE NOTE 5
-2XX2						
-1X03	.094 [2.39] TO .125 [3.18] THICK PC BOARD	.155 [3.94]	.0245+/-.0005 [.622]	.028+/-.001 [.71]	.0075 REF. [.191]	.035+/-.003 [.89]
-2X03						

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J	93619	JAN 07,2021 REMOVE TIN LEAD PLATE AND KINK TAILS	JNC	SAN
H	60056	MAR 06,2015 REVISE ORDERING NUMBER	JNC	RS
G	56068	AUG 05,2014 REVISED AND REDRAWN	JNC	RS

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CHKD — DATE — APPVL: R. SCHERER — DATE: SEP 05,2014

DIVISION: Interconnect Solutions — DIVISION CODE: EMSD

DO NOT SCALE DRAWING — SCALE

TOLERANCES EXCEPT AS NOTED

THIRD ANGLE PROJECTION

INCHES
.0 ±.1
.00 ±.01
.000 ±.005
.0000 ±.0002

INTERPRET PER ASME Y14.5 - 2018

MILLIMETERS
0 ±
.0 ±
.00 ±
.000 ±

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
√ ☐ MARKED ONLY

ANGLES ±

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TITLE: HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT AND RA

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0771-5 | REV.: L

MODEL: 3400 | DET. LISTS ☐ YES ☒ NO | SHT 2 OF 5

78-5100-0771-5 DRAWING NUMBER | REVISION

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
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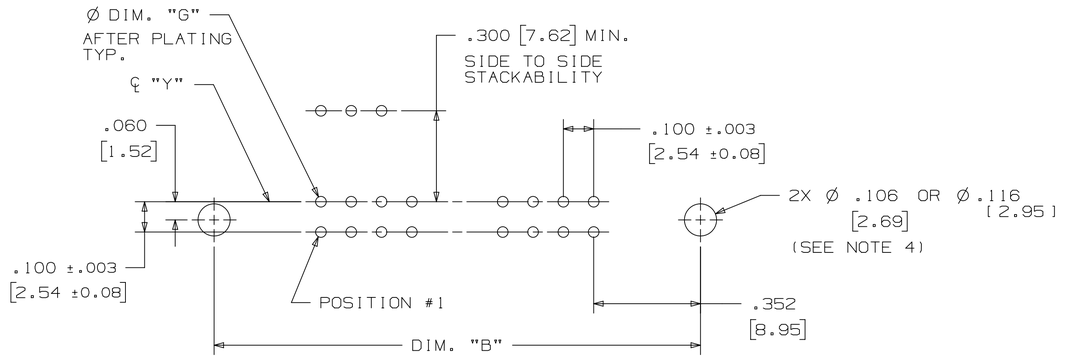
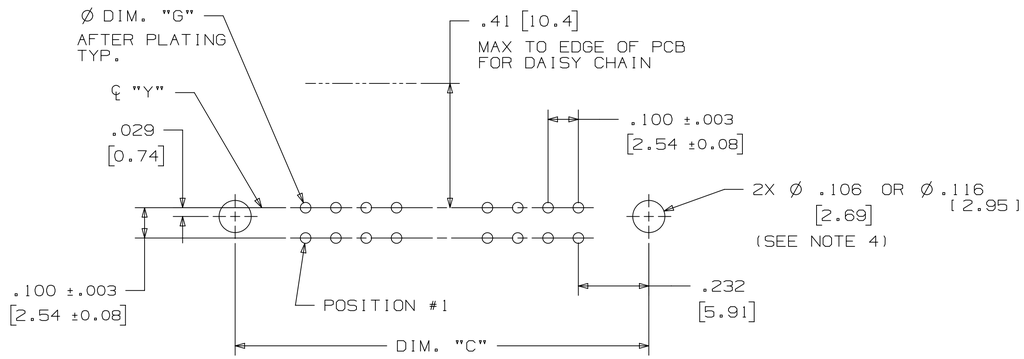
3M™ THREE-WALL HEADER, 3000 SERIES

.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



RECOMMENDED MOUNTING HOLE PATTERN

(STRAIGHT VERSION)



RECOMMENDED MOUNTING HOLE PATTERN

(RIGHT ANGLE VERSION)

PART CUSTOMIZATION

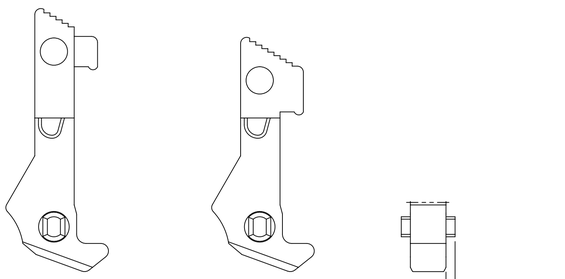
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

3M HAS SEVERAL CAPABILITIES THAT CAN PROVIDE A PART TAILORED TO YOUR SPECIFIC NEEDS. ASK YOUR 3M SALES REPRESENTATIVE OR CUSTOMER SERVICE FOR MORE DETAILS.

BOTH SNAP-IN AND ROLL PIN LATCHES MAY BE ORDERED SEPARATELY. SNAP-IN AND ROLL PIN STYLE LATCHES ARE DIMENSIONALLY AND FUNCTIONALLY EQUIVALENT. IF ORDERING SNAP-IN OR ROLL PIN STYLE LATCHES SEPARATELY, PLEASE USE THE BELOW CHART.

MATERIAL	SHORT LATCH	LONG LATCH	LATCH STYLE	COLOR
HIGH TEMP. (PCT)	N3505-2B	N3505-3B	ROLL PIN	BLACK
HIGH TEMP (PPA)	N3505-30B	N3505-31B	SNAP-IN	BLACK

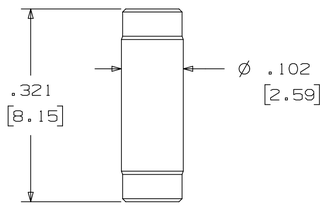
* SELECTIVE PIN REMOVAL (ATA OR OTHER COMPATABILITY)
* WIRE WRAP TAILS STYLE



SNAP-IN LATCHES

NOTE:
SNAP-IN LATCHES CAN ONLY BE ORDERED SEPARATELY AND ARE THE CUSTOMERS RESPONSIBILITY TO INSTALL.

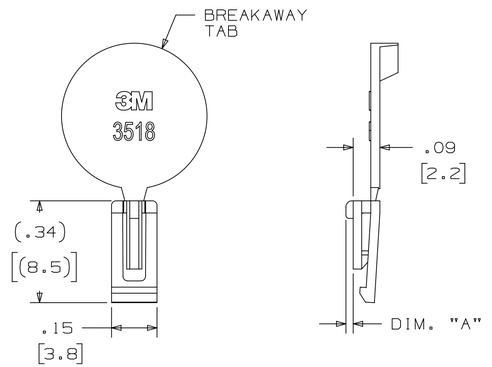
POLARIZING POST



3M PART NO.	MATERIAL	COLOR
3201-4	LCP	BLACK

NOTE:
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

POLARIZING KEY



3M PART NO.	MATERIAL	COLOR	DIM. "A"
N3518	LCP	BLACK	.02

NOTE:
#2216 B/A SCOTCHWELD CAN BE USED TO ADHERE KEYS.

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
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DIVISION: Interconnect Solutions | DIVISION CODE: EMSD

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TOLERANCES EXCEPT AS NOTED

INCHES
.0 ±.1
.00 ±.01
.000 ±.005
.0000 ±.0002

MILLIMETERS
0 ±
.0 ±
.00 ±
.000 ±

ANGLES ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY

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TITLE: HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT AND RA

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0771-5 | REV.: L

MODEL: 3400 | DET. Lists ☐ YES ☒ NO | SHT 3 OF 5

78-5100-0771-5 (DRAWING NUMBER) L (REVISION)

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INTERCONNECT SOLUTIONS
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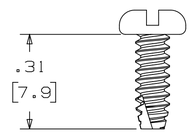
3M™ THREE-WALL HEADER, 3000 SERIES

.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

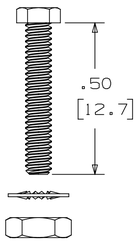
MOUNTING HARDWARE



3341-5

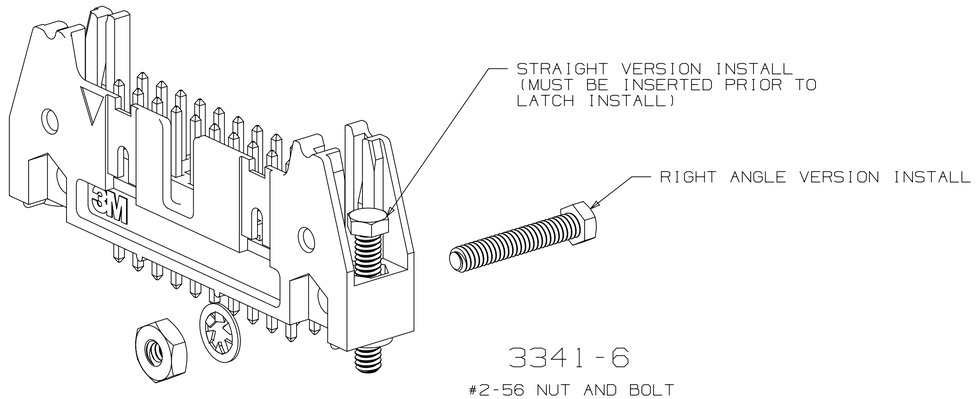
(INSTALL FROM BOTTOM OF BOARD)

PANHEAD THREAD CUTTING SCREW:
#4-24 X 5/16"
TYPE: USA STD BT, FEDERAL BG
MATERIAL: STAINLESS STEEL



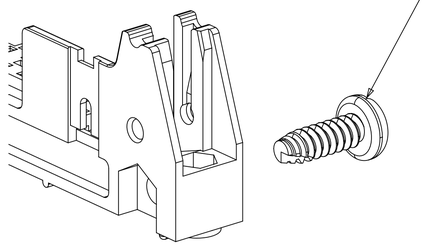
3341-6

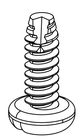
HEX HEAD BOLT, NUT AND WASHER:
BOLT - #2-56 X 1/2"
MATERIAL: STAINLESS STEEL



3341-6

#2-56 NUT AND BOLT





3341-5

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
L	115955	MAY 08,2024 REMOVE 05 WWT TAILS	JNC	FJR
K	97909	JUN 22,2021 REVISED ORDERING INFO	JNC	SAN
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DO NOT SCALE DRAWING | SCALE

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INCHES
.0 ±.1
.00 ±.01
.000 ±.005
.0000 ±.0002

INTERPRET PER ASME Y14.5 - 2018

MILLIMETERS
0 ±
.0 ±
.00 ±
.000 ±

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY

ANGLES ±

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3M Center, St. Paul, MN 55144

TITLE: HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT AND RA

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0771-5 | REV.: L

MODEL: 3400 | DET. LIS: ☐ YES ☒ NO | SHT 4 OF 5

78-5100-0771-5 DRAWING NUMBER | L REVISION

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3M™ THREE-WALL HEADER, 3000 SERIES

.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

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Electronics Materials Solutions Division
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3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
http://www.3M.com/interconnect

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INFORMATION CALL 800-225-5373

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
L	115955	MAY 08,2024 REMOVE 05 WWT TAILS	JNC	FJR
K	97909	JUN 22,2021 REVISED ORDERING INFO	JNC	SAN
J	93619	JAN 07,2021 REMOVE TIN LEAD PLATE AND KINK TAILS	JNC	SAN
H	60056	MAR 06,2015 REVISE ORDERING NUMBER	JNC	RS
G	56068	AUG 05,2014 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE: ACCESS CODES
NEXT ASSEMBLY
DRFT: CASTIGLIONE — DATE: AUG 05,2014 — MFG — DATE
CHKD — DATE — APPVL: R. SCHERER — DATE: SEP 05,2014
DIVISION: Interconnect Solutions
DIVISION CODE: EMSD
DO NOT SCALE DRAWING
TOLERANCES EXCEPT AS NOTED
INCHES: .0 ±.1; .00 ±.01; .000 ±.005; .0000 ±.0002
MILLIMETERS: 0 ±; .0 ±; .00 ±; .000 ±
ANGLES ±
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 2018
MAX SURFACE ROUGHNESS: ☐ ALL SURFACES; ☐ MARKED ONLY

3M Center
St. Paul, MN 55144

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TITLE: HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT AND RA

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0771-5 | REV.: L
MODEL: 3400 | DET. LISTS ☐ YES ☒ NO | SHT 5 OF 5

78-5100-0771-5 DRAWING NUMBER | L REVISION