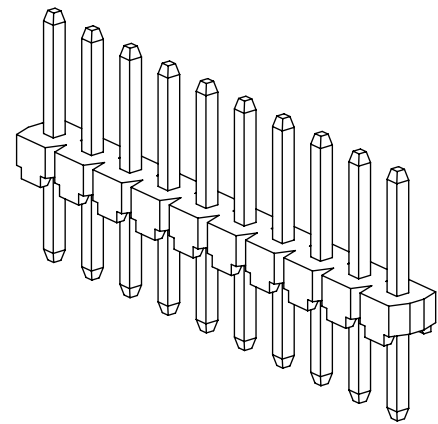
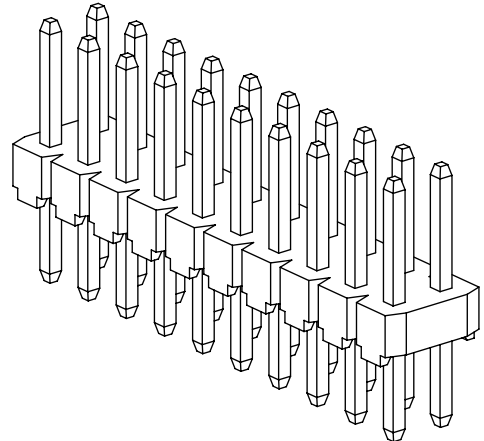


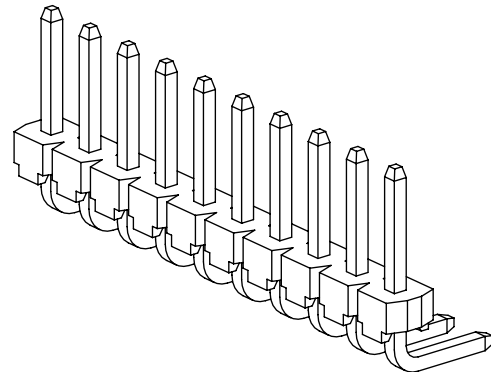
3M™ PIN STRIP HEADER, 951 SERIES
2MM AND 2MM X 2MM STRAIGHT, RIGHT ANGLE AND SURFACE MOUNT, SOLDER TAIL



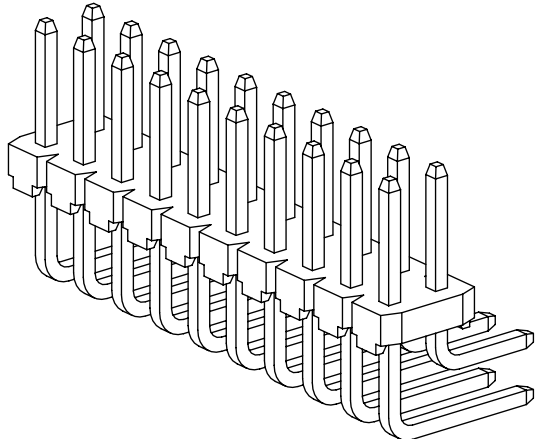
SINGLE ROW
STRAIGHT
VERSION



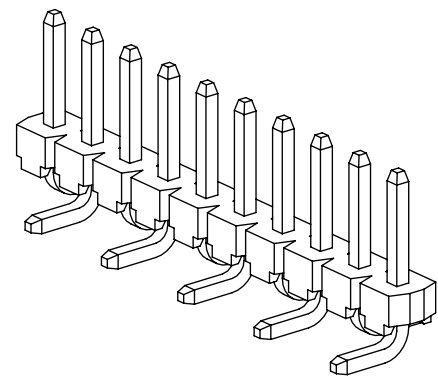
DUAL ROW
STRAIGHT
VERSION



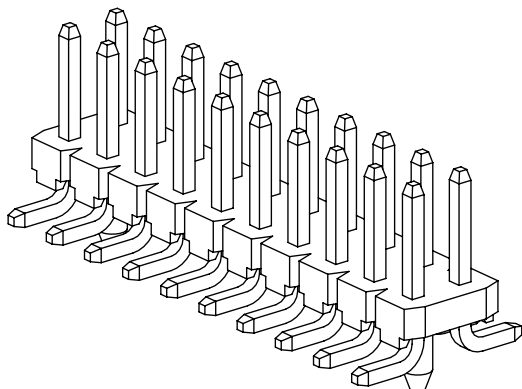
SINGLE ROW
RIGHT ANGLE
VERSION



DUAL ROW
RIGHT ANGLE
VERSION



SINGLE ROW
SURFACE MOUNT
VERSION



DUAL ROW
SURFACE MOUNT
VERSION

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

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INFORMATION CALL 800-225-5373



UL FILE NO: E68080

| MM [INCH] | | | |
|-------------------------------|------|-------|-----|
| TOLERANCE - UNLESS NOTED | | | |
| | X. | .X | .XX |
| MM | ±.5 | ±.20 | |
| [INCH] | ±.02 | ±.008 | |
| [] = DIM. FOR REFERENCE ONLY | | | |

2 PHYSICAL :

INSULATOR: HIGH TEMP THERMOPLASTIC
MATERIAL: UL94V-0
FLAMMABILITY: BLACK
COLOR: BRASS
CONTACT: MATERIAL: PLATING:
UNDER PLATING: 50μ" [1.27μm] NICKEL-OVERALL
WIPING AREA: GOLD FLASH
SOLDER TAILS: 40-118μ" [1-3μm]
MARKINGS: ORIENTATION TRIANGLE

2 ELECTRICAL :

CURRENT RATING: 2A
CONTACT RESISTANCE: ≤ 20mΩ
INSULATION RESISTANCE: ≥ 1000MΩ
WITHSTANDING VOLTAGE: 500V_{RMS} 1mA, 60s

2 MECHANICAL :

RETENTION FORCE: ≥ 4.5N PER PIN

2 ENVIRONMENTAL :

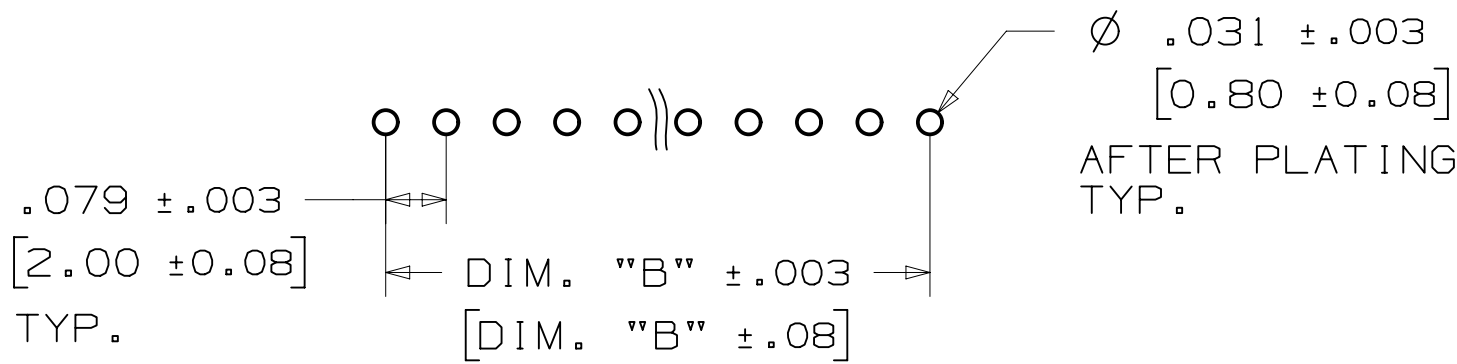
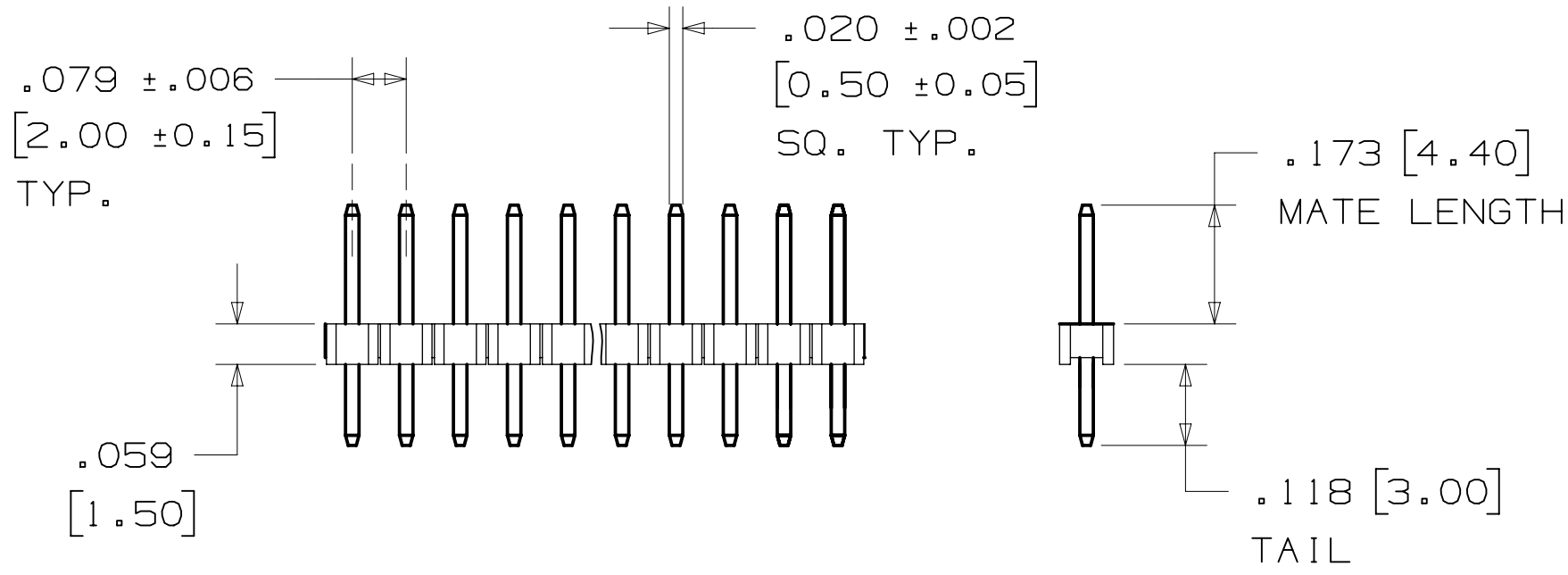
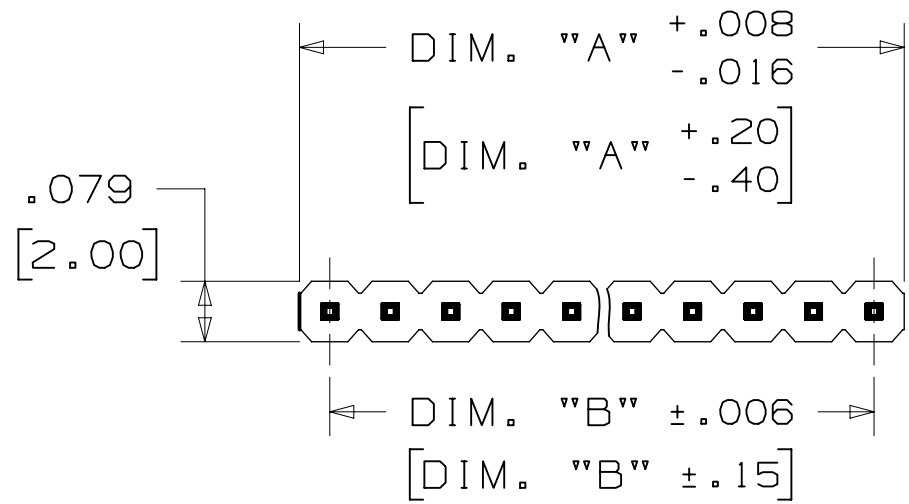
TEMPERATURE RATING: -55°C TO 125°C
HUMIDITY: ≤ 93% AT 40°C
RESISTANCE TO SOLDERING HEAT: PBT, 245°C±5°C, 10s

- NOTES
1. REGULATORY INFORMATION:
VISIT 3M.com/regs OR CONTACT
YOUR 3M REPRESENTATIVE TO FIND
THE RoHS COMPLIANCE STATUS OF
THE 3M PART YOU ARE INTERESTED
IN.
 2. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.
 3. N = THE NUMBER OF POSITIONS.

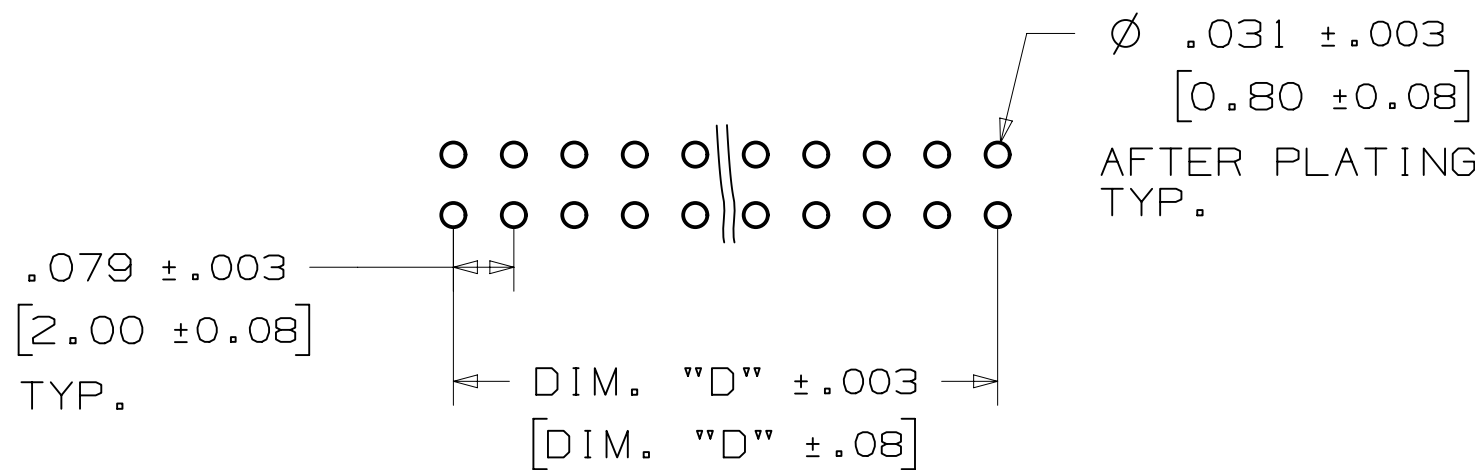
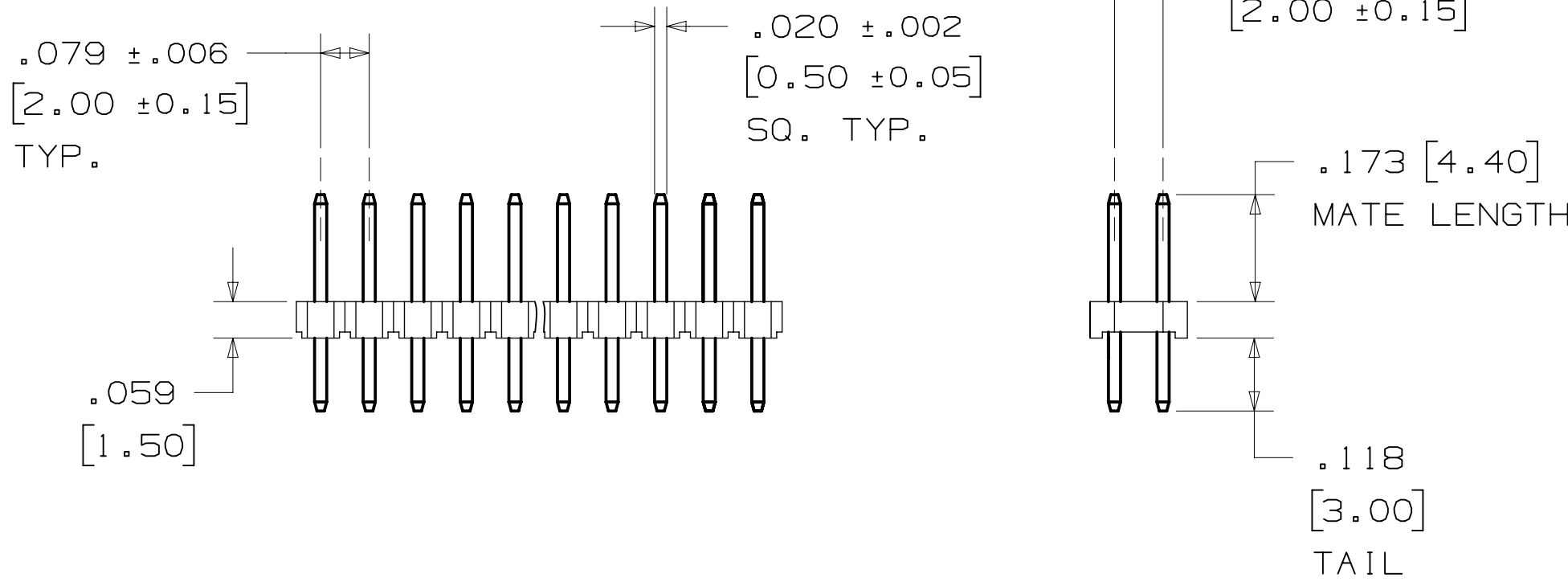
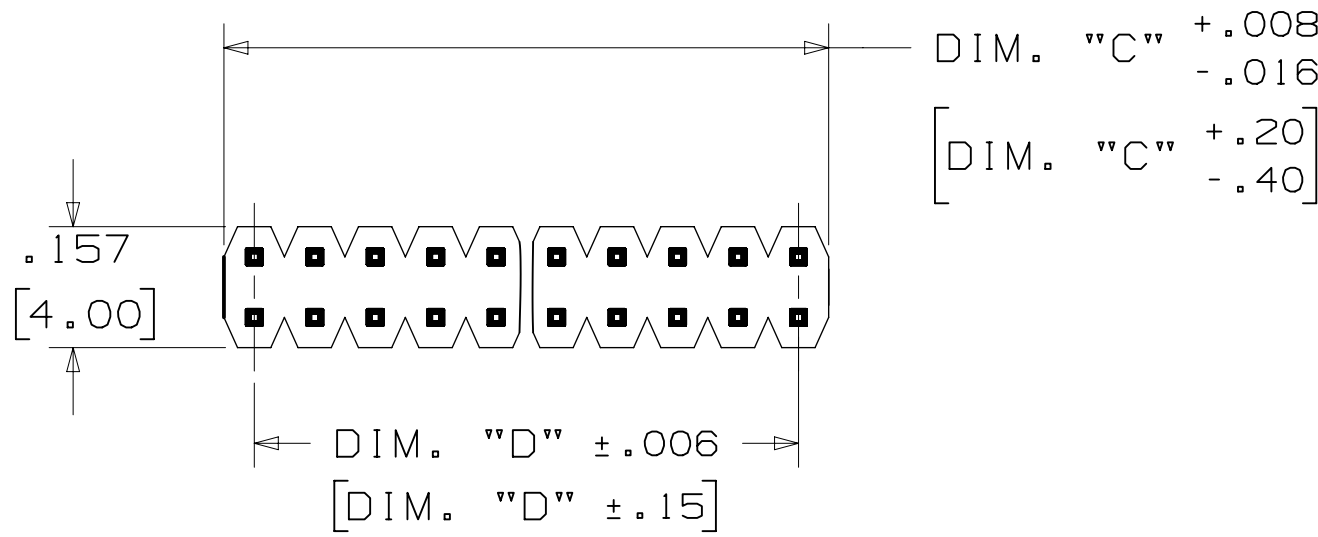
DIMENSIONS: INCH [MM]
[MM] FOR REF. ONLY

| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | ECO | ISSUE DATE AND DESCRIPTION | | DRFT | CHKD |
|---|--|---|--|--|----------------------|--|----------------------|--|------|
| XREF CODES | | | | DRP CASTIGLIONE | DATE FEB 23, 2015 | MFG DATE FEB 23, 2015 | | | |
| DIVISION | | DIVISION CODE EMSD | | CHKD | DATE | APPRV T. SUNIGA | DATE FEB 23, 2015 | | |
| DO NOT SCALE DRAWING | | SCALE 4 1 | | TOLERANCES EXCEPT AS NOTED | | <div><div><div>3M</div><div>3M Center St. Paul, MN 55144</div></div><div><div>© 3M COPYRIGHT 2017</div><div>This document and the information it contains are 3M property and may be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.</div></div></div> | | | |
| | | INCHES ± .00 ± .000 ± 0.000 ± | | MILLIMETERS ± .00 ± .000 ± 0.000 ± | | TITLE PIN STRIP HEADER, 2MM X 2MM, STRAIGHT, SMT & RA, SOLDER TAIL | | | |
| THIRD ANGLE PROJECTION | | INTERPRET PER ASME Y14.5 - 2009 | | CAGE NUMBER | | SIZE DRAWING NO. D 78-5100-2653-3 | | REV. B | |
| MAX SURFACE ROUGHNESS [INCH] | | MAX SURFACE ROUGHNESS [INCH] | | MODEL 951XXX | | DET. 1STS | | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> SHT 1 OF 6 | |
| <input checked="" type="checkbox"/> UNMARKED ONLY | | UNMARKED ONLY | | | | | | | |

3M™ PIN STRIP HEADER, 951 SERIES
2MM AND 2MM X 2MM STRAIGHT, RIGHT ANGLE AND SURFACE MOUNT, SOLDER TAIL



RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)



RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION
STRAIGHT VERSION

951XXX-8622-AR

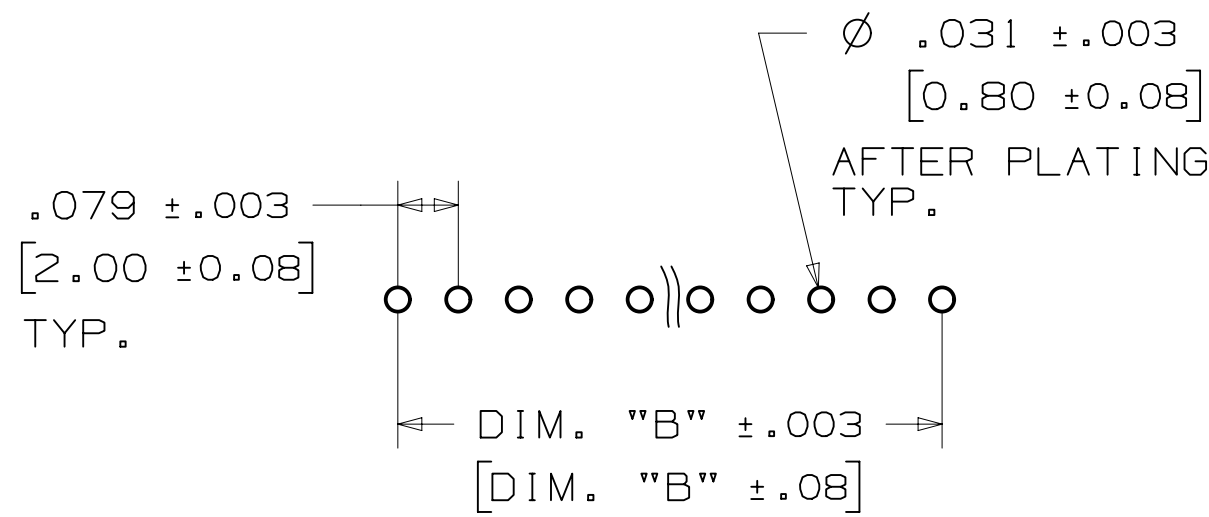
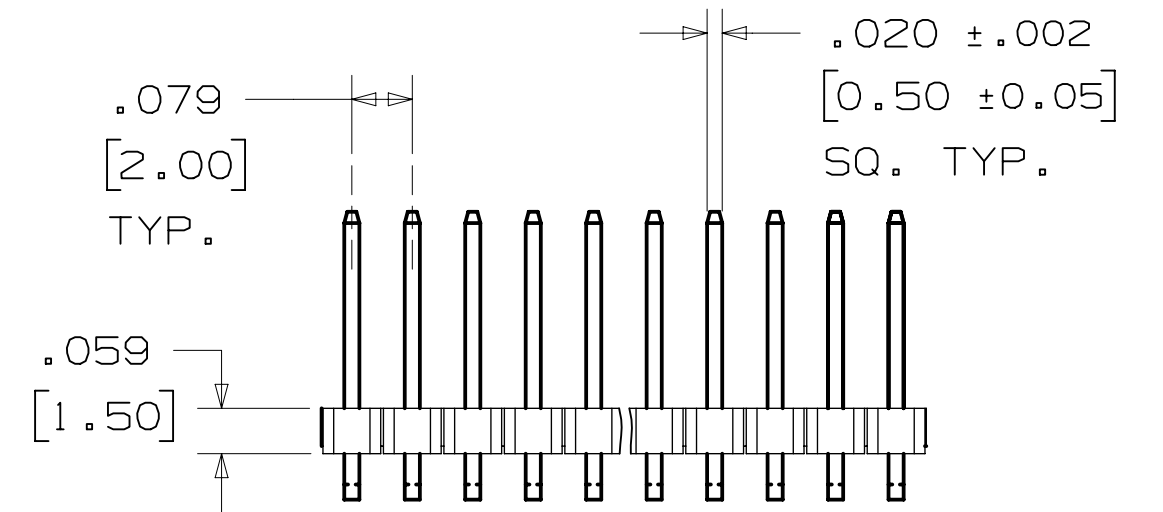
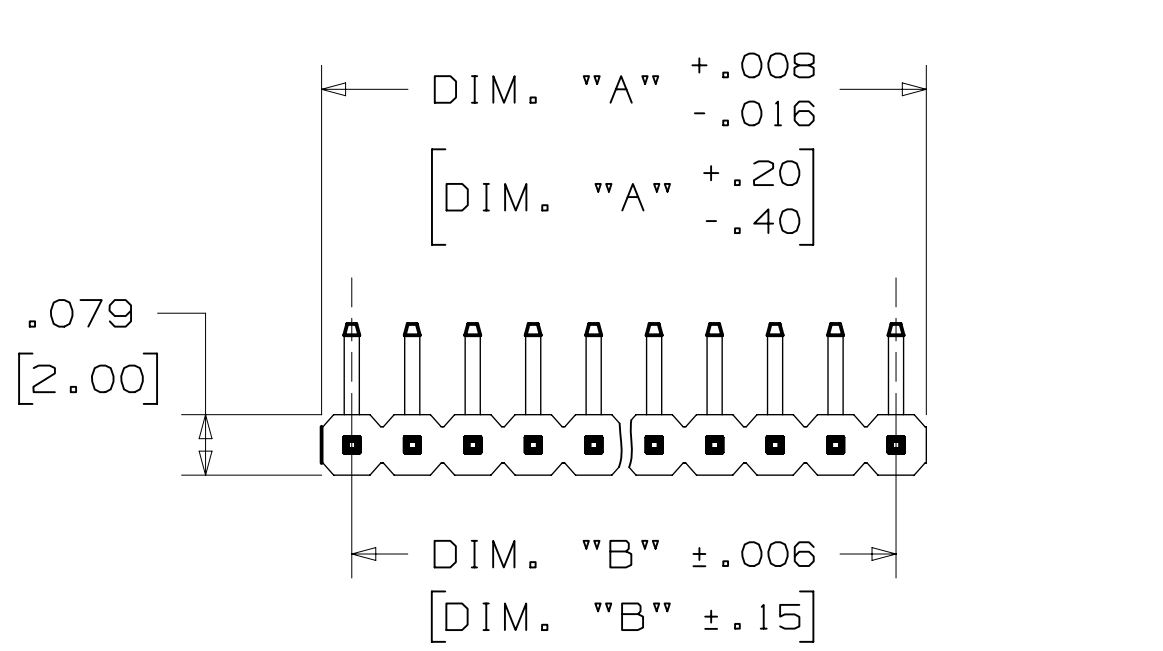
No. OF ROWS: 1 = 1 ROW
2 = 2 ROW

CONTACT QTY.
40 PINS = 1 ROW
80 PINS = 2 ROW

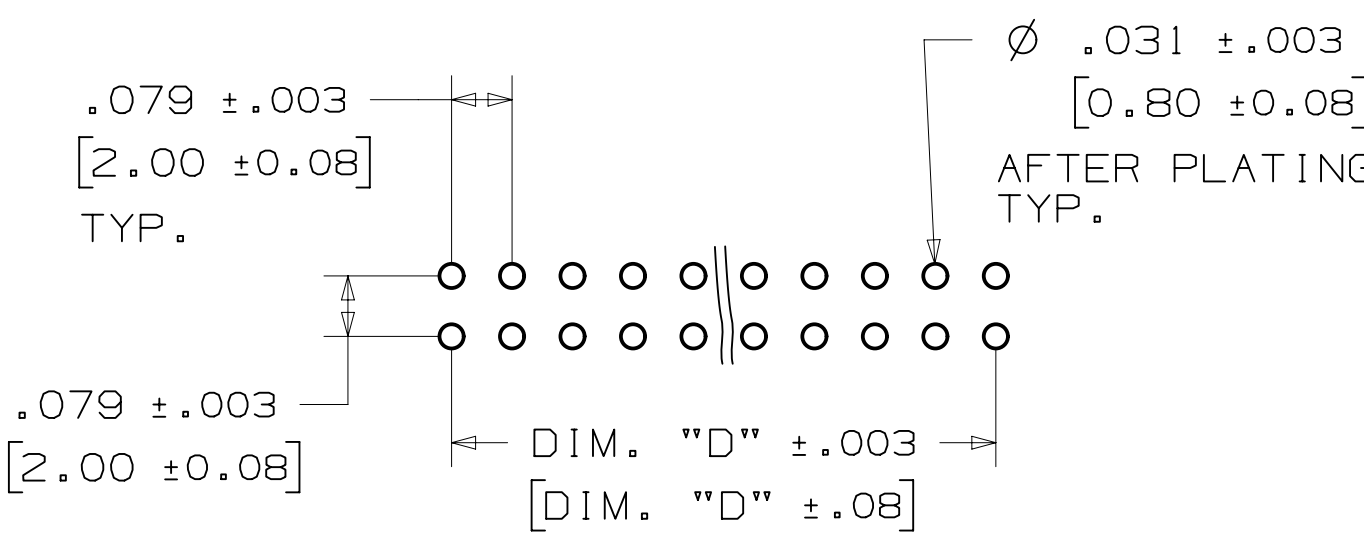
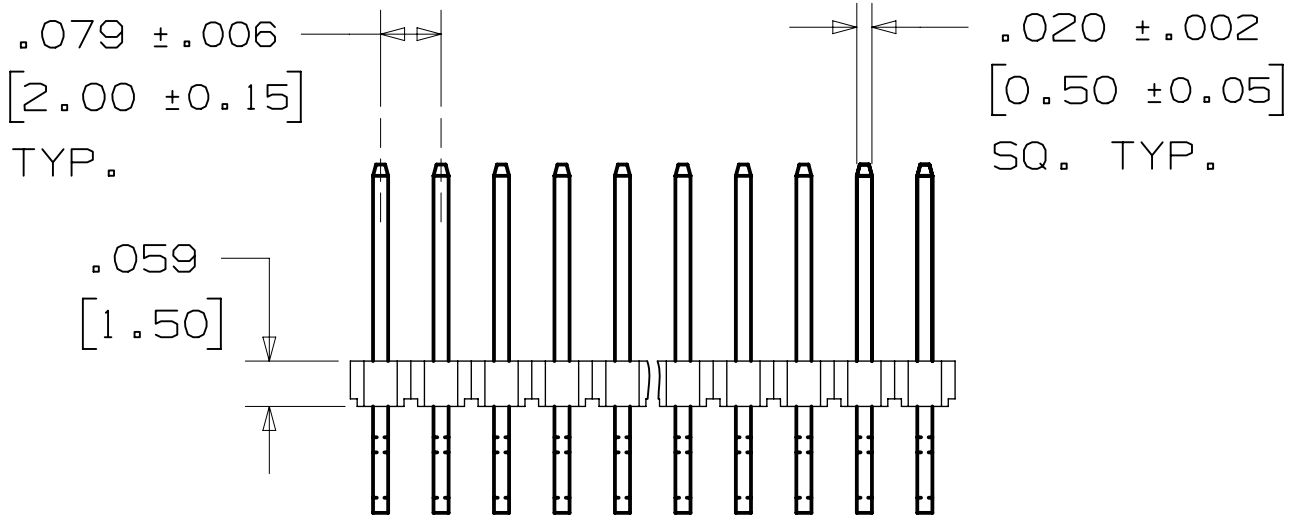
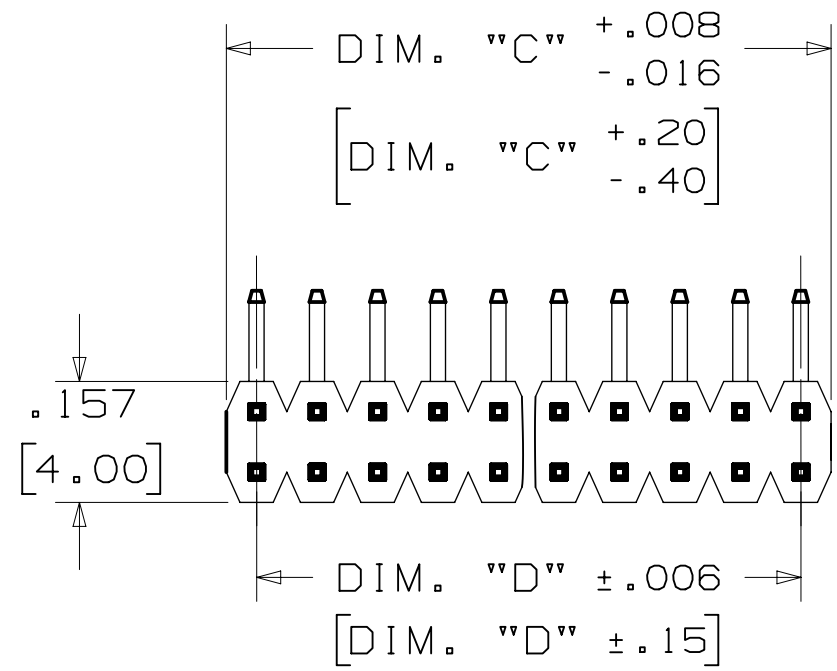
| TABLE 1 | |
|------------|-----------------------|
| DIM. "A" | .079 [2.00] X N |
| DIM. "B" | .079 [2.00] X (N-1) |
| DIM. "C" | .079 [2.00] X (N/2) |
| DIM. "D" | .079 [2.00] X (N/2-1) |
| SEE NOTE 3 | |

| | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|---------------|--|---------------------------------|--|-------------|--|--|--|------------------------------|--|-------------|--|-----------|--|------|--|--------------|--|
| B | | 65464 | | NOV 08, 2017 | | JNC | | SC | | | | | | | | | | | |
| A | | 72044 | | MAR 06, 2017 | | JNC | | TS | | | | | | | | | | | |
| | | | | REVISE ELECTRICAL NOTES | | | | | | | | | | | | | | | |
| | | | | 3-2-17 REMOVED 2 CONNECTORS | | | | | | | | | | | | | | | |
| | | | | PRODUCTION RELEASE | | | | | | | | | | | | | | | |
| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | | ECO | | ISSUE DATE AND DESCRIPTION | | DRFT | | CHKD | | | | | | | |
| ADDRESS CODES | | | | DRFT | | CASTIGLIONE | | DATE | | FEB 23, 2015 | | MFG | | DATE | | | | | |
| | | | | CHKD | | | | DATE | | | | APPROV | | T. SUNIGA | | DATE | | FEB 23, 2015 | |
| DIVISION | | | | DIVISION CODE | | EMSD | | © 3M COPYRIGHT 2017 | | | | | | | | | | | |
| DO NOT SCALE DRAWING | | SCALE 4 1 | | TOLERANCES EXCEPT AS NOTED | | | | 3M | | 3M Center St. Paul, MN 55144 | | | | | | | | | |
| | | | | INCHES | | | | TITLE | | | | | | | | | | | |
| | | | | THIRD ANGLE PROJECTION | | | | PIN STRIP HEADER, 2MM X 2MM, STRAIGHT, SMT & RA, SOLDER TAIL | | | | | | | | | | | |
| | | | | INTERPRET PER ASME Y14.5 - 2009 | | | | CAGE NUMBER | | SIZE | | DRAWING NO. | | REV. | | | | | |
| MAX SURFACE ROUGHNESS | | | | MILLIMETERS | | | | D | | 78-5100-2653-3 | | B | | | | | | | |
| ✓ | | □ MARKED ONLY | | ANGLES | | | | MODEL | | 951XXX | | DET. LISTS | | YES | | NO | | SHT 2 OF 6 | |

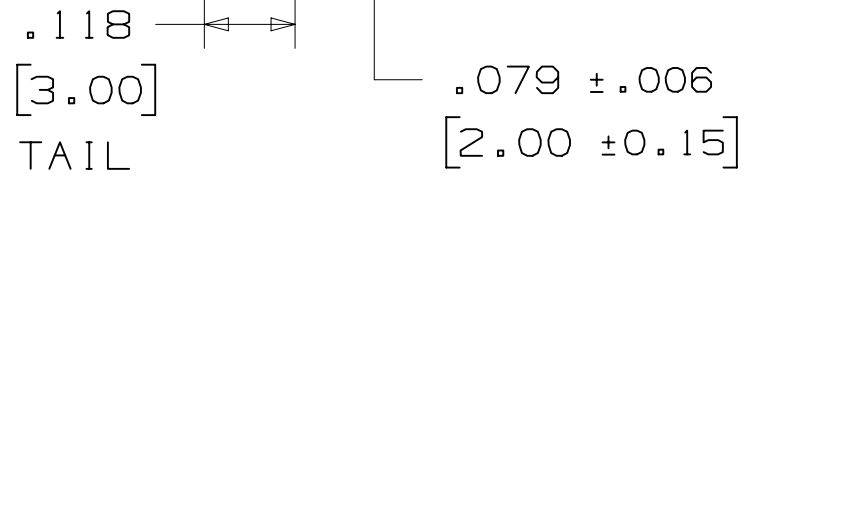
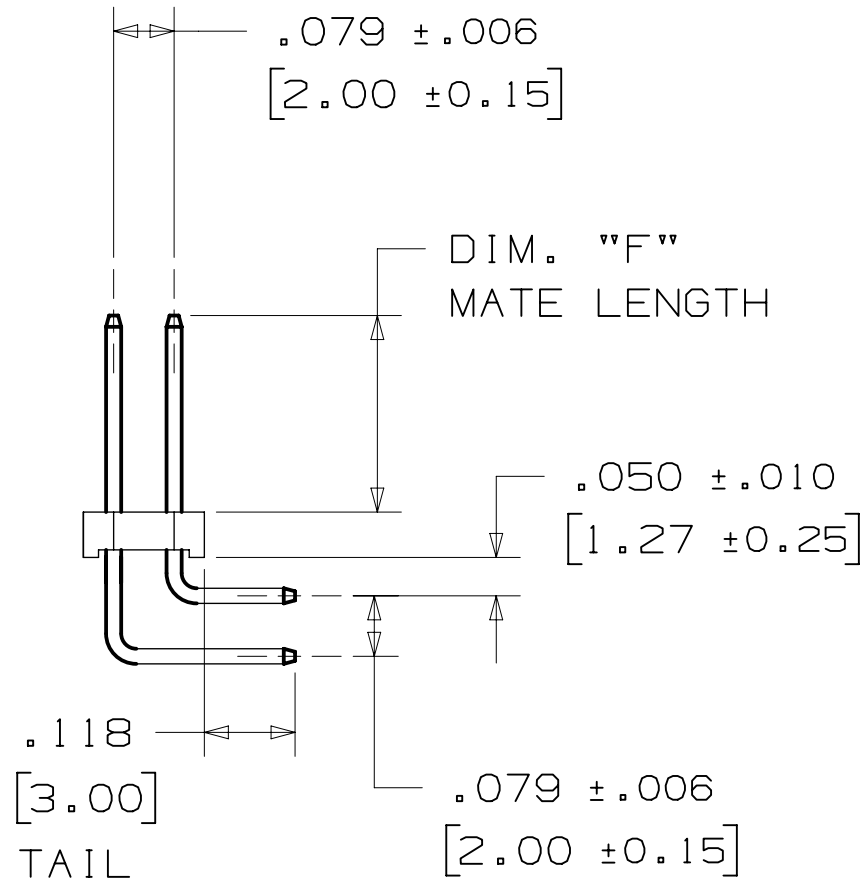
3M™ PIN STRIP HEADER, 951 SERIES
2MM AND 2MM X 2MM STRAIGHT, RIGHT ANGLE AND SURFACE MOUNT, SOLDER TAIL



RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)



RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)



ORDERING INFORMATION
RIGHT ANGLE VERSION

951XXX-7X22-AR

No. OF ROWS:
1 = 1 ROW
2 = 2 ROW

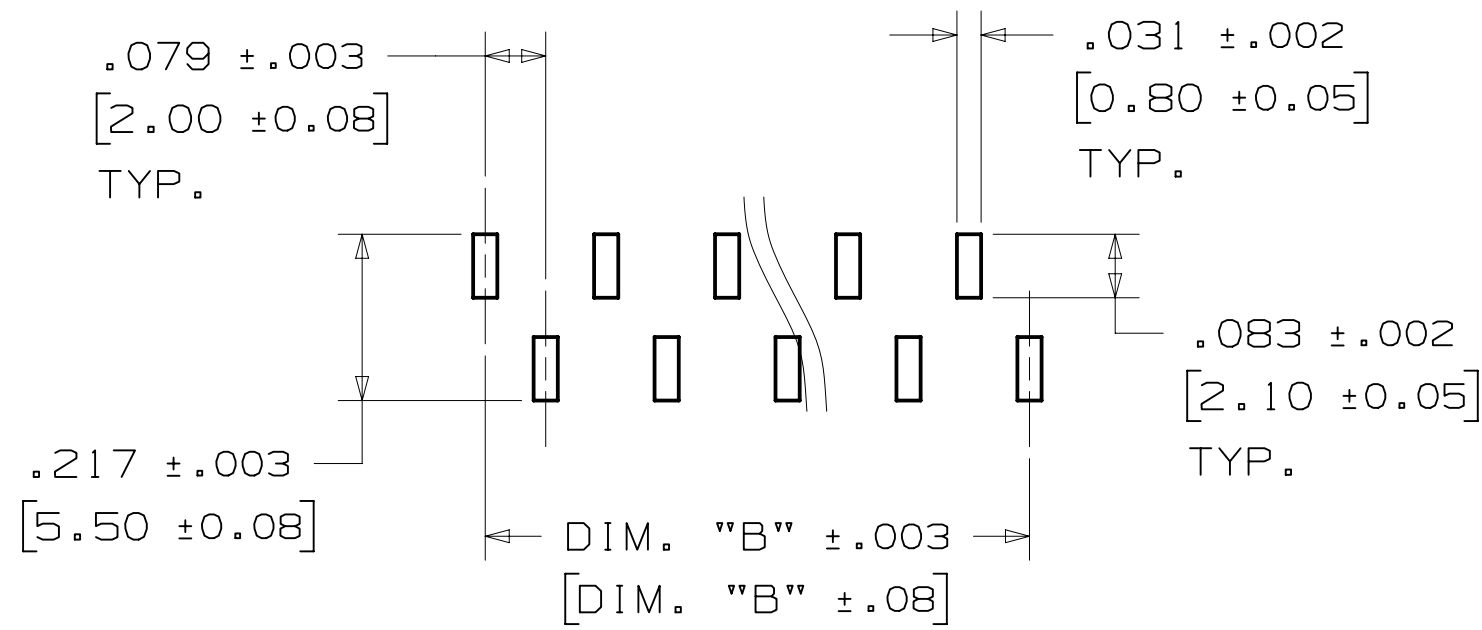
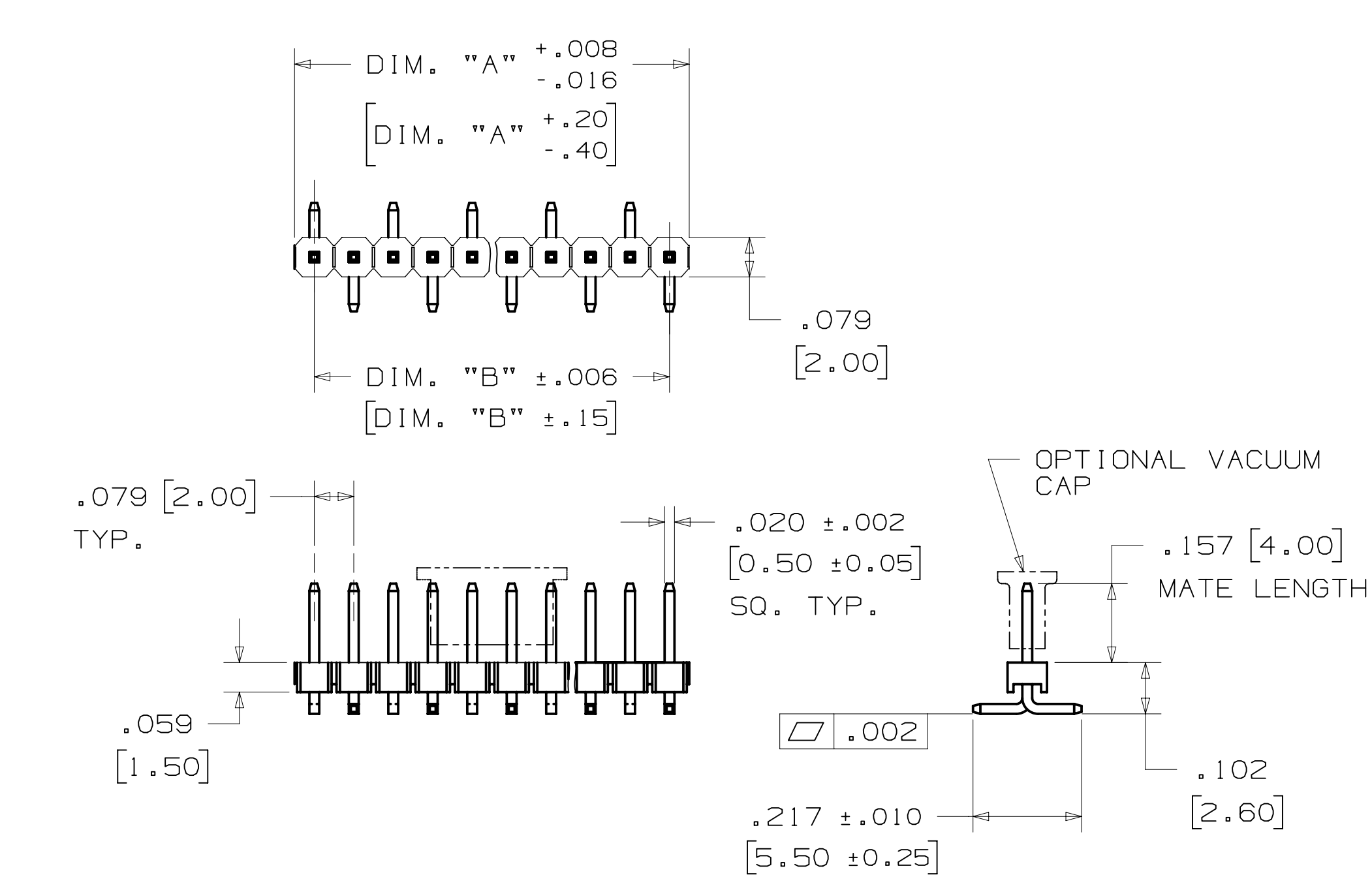
CONTACT QTY:
40 PINS = 1 ROW
80 PINS = 2 ROW

DIM. "F"
MATING PIN LENGTH:
6 = .173 [4.40]
7 = .295 [7.50]

| TABLE 2 | |
|------------|-----------------------|
| DIM. "A" | .079 [2.00] X N |
| DIM. "B" | .079 [2.00] X (N-1) |
| DIM. "C" | .079 [2.00] X (N/2) |
| DIM. "D" | .079 [2.00] X (N/2-1) |
| SEE NOTE 3 | |

| | | | | | | | | | |
|------------------------|--|---------------------------------|--|----------------------------|------|----------------------------|------|-------------|------|
| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | ECO | ISSUE DATE AND DESCRIPTION | | DRFT | CHKD |
| XREF CODES | | XREF CODES | | CHKD | CHKD | DATE | DATE | DATE | DATE |
| DIVISION | | DIVISION CODE | | CASTIGLIONE | | FEB 23, 2015 | MFG | DATE | DATE |
| DO NOT SCALE DRAWING | | SCALE | | TOLERANCES EXCEPT AS NOTED | | INCHES | | MILLIMETERS | |
| THIRD ANGLE PROJECTION | | INTERPRET PER ASME Y14.5 - 2009 | | MAX SURFACE ROUGHNESS | | MARKED SURFACES | | ANGLES | |
| CAGE NUMBER | | SIZE | | DRAWING NO. | | REV. | | REV. | |
| 951XXX | | D | | 78-5100-2653-3 | | B | | SHT 3 OF 5 | |
| MODEL | | LISTS | | YES | | NO | | SHT 3 OF 5 | |

3M™ PIN STRIP HEADER, 951 SERIES
2MM AND 2MM X 2MM STRAIGHT, RIGHT ANGLE AND SURFACE MOUNT, SOLDER TAIL



RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION
SURFACE MOUNT VERSION

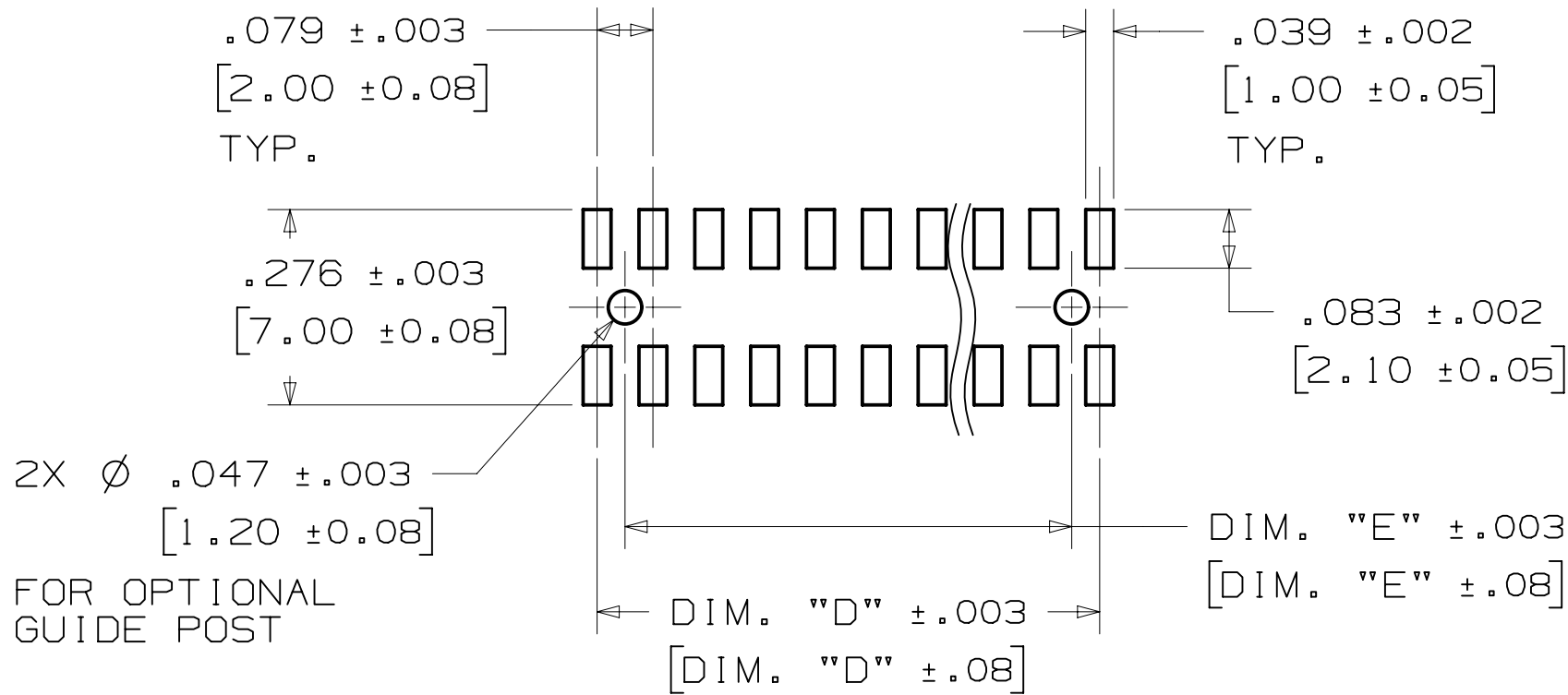
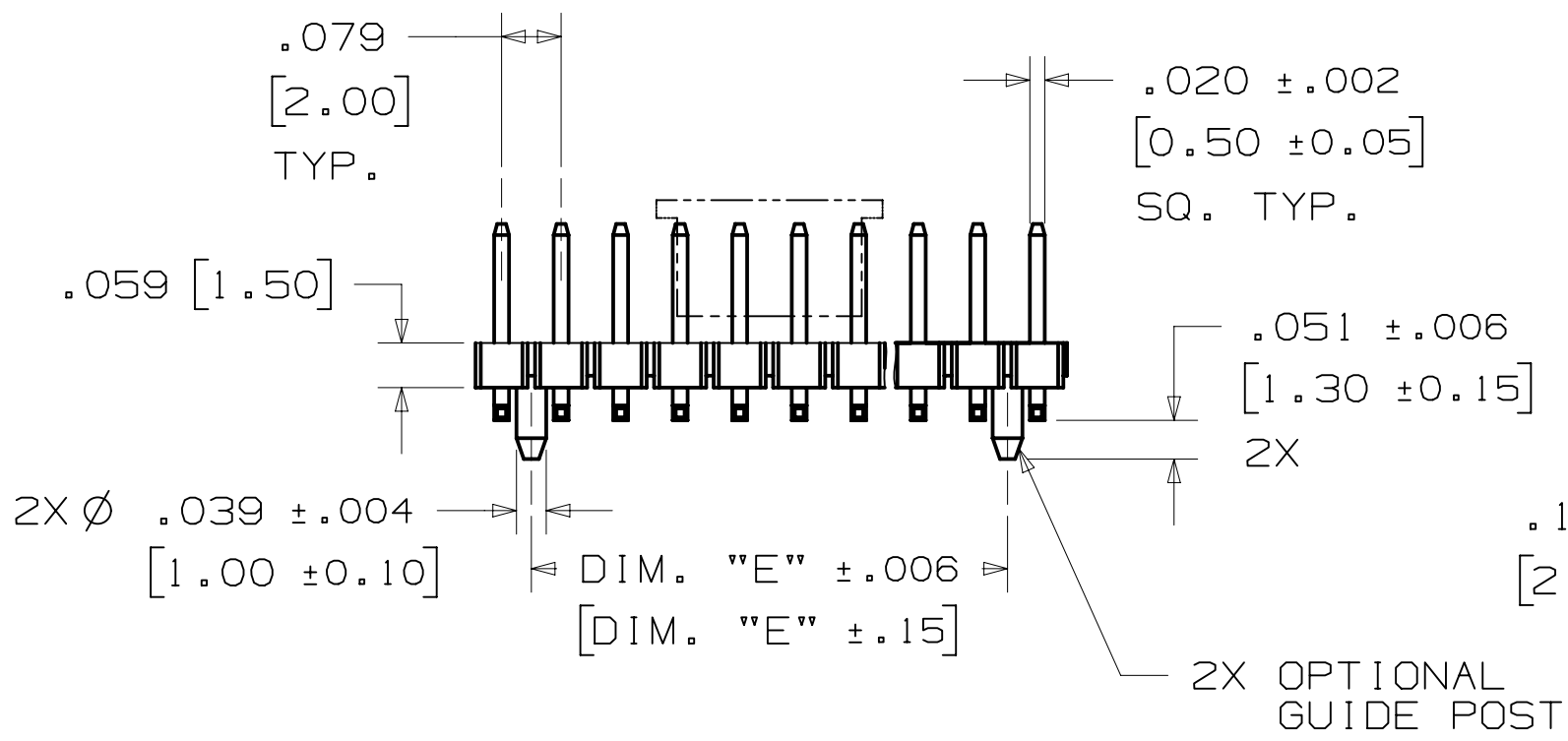
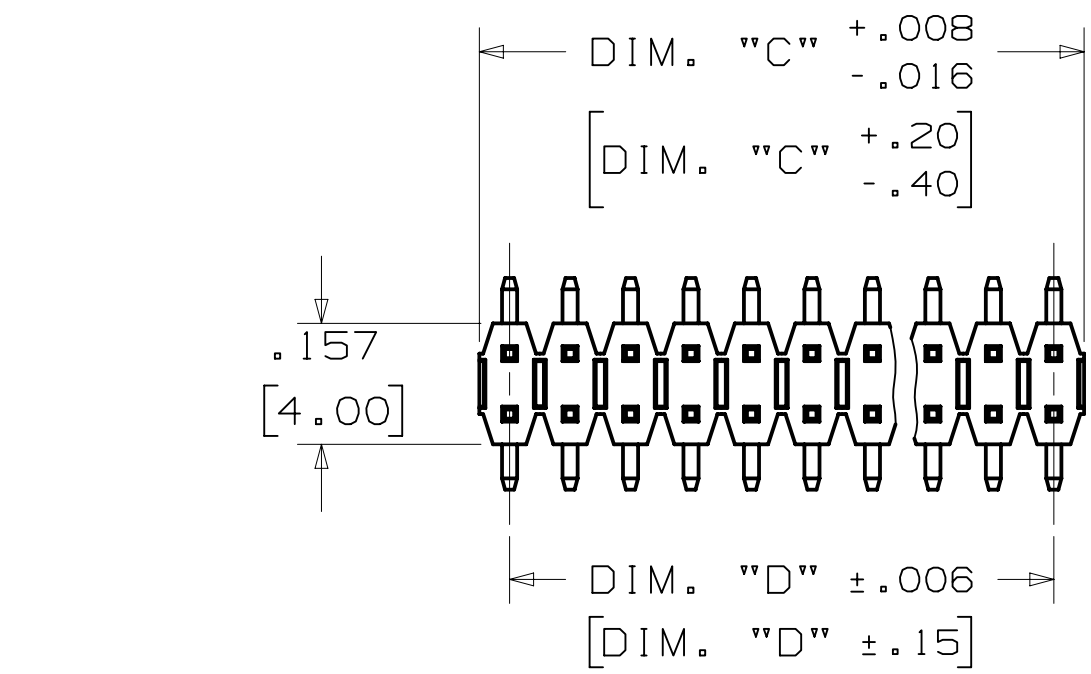
951XXX-25X0-AR-XX

No. OF ROWS:
1 = 1 ROW
2 = 2 ROW

CONTACT QUANTITY:
40 PINS = 1 ROW
80 PINS = 2 ROW

PACKAGING:
TP = TUBE
PT = TUBE WITH PAD
PR = TAPE & REEL WITH PAD
NOTE: PAD OPTIONS
1 ROW = 40 POSITION
2 ROW = 80 POSITION

BOARD LOCATION FEATURES:
3 = 1 ROW / PIN 1 LEFT
2 = 2 ROW / NONE
5 = 2 ROW / WITH LOCATION POST
(8 - 14 CONTACTS)



RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)

| TABLE 3 | |
|------------|--------------------------|
| DIM. "A" | 0.079 [2.00] X N |
| DIM. "B" | 0.079 [2.00] X (N-1) |
| DIM. "C" | 0.079 [2.00] X (N/2) |
| DIM. "D" | 0.079 [2.00] X (N/2-1) |
| DIM. "E" | 0.079 [2.00] X (N/2-2) |
| SEE NOTE 3 | |

| TAPE & REEL OPTION | | |
|--------------------|--------------|-----|
| 1 ROW | CONTACT QTY. | 40 |
| 2 ROW | | 80 |
| TAPE WIDTH [MM] | | 104 |

| | | | | | | |
|------------------------|---------------------------------|--|-------------|----------------------------|------|------------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| CODES | | CHKD | CHKD | DATE | DATE | DATE |
| DIVISION | DIVISION CODE | CHKD | CHKD | DATE | DATE | DATE |
| DO NOT SCALE DRAWING | SCALE 4/1 | TOLERANCES EXCEPT AS NOTED | | | | |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 | INCHES | | | | |
| MAX SURFACE ROUGHNESS | MARKED ONLY | MILLIMETERS | | | | |
| TITLE | | PIN STRIP HEADER, 2MM X 2MM, STRAIGHT, SMT & RA, SOLDER TAIL | | | | |
| CAGE NUMBER | | SIZE | DRAWING NO. | REV. | | |
| D | | 78-5100-2653-3 | B | | | |
| MODEL | | 951xxx | DET | YES | NO | SHT 4 OF 5 |

3M™ PIN STRIP HEADER, 951 SERIES
2MM AND 2MM X 2MM STRAIGHT, RIGHT ANGLE AND SURFACE MOUNT, SOLDER TAIL

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| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | ECO | ISSUE DATE AND DESCRIPTION | | DRFT | CHKD |
| XREF CODES | | | | DRP | CASTIGLIONE | | DATE | MFG | DATE |
| | | | | CHKD | | | DATE | APPRV | DATE |
| | | | | | | | | T. SUN16A | FEB 23,2015 |
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| DO NOT SCALE DRAWING | | SCALE 4 1 | | TOLERANCES EXCEPT AS NOTED | | TITLE | | | |
| | | | | | | PIN STRIP HEADER, 2MM X 2MM, STRAIGHT, SMT & RA, SOLDER TAIL | | | |
| THIRD ANGLE PROJECTION | | | | | | CAGE NUMBER | | SIZE | DRAWING NO. |
| | | | | | | D | | 78-5100-2653-3 | B |
| MAX SURFACE ROUGHNESS | | | | | | MODEL | | REV. | |
| ✓ MARKED SURFACES | | | | | | 951XXX | | DET. LISTS | |
| | | | | | | | | YES NO SHT 5 OF 5 | |