

3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES



TABLE 1: VERTICAL THRU

| No. Positions | Dim "A" | Dim "B" | Dim "C" |
|---------------|---------|---------|---------|
| 4 | .050 | .215 | .270 |
| 6 | .100 | .265 | .320 |
| 8 | .150 | .315 | .370 |
| 10 | .200 | .365 | .420 |
| 12 | .250 | .415 | .470 |
| 14 | .300 | .465 | .520 |
| 16 | .350 | .515 | .570 |
| 20 | .450 | .615 | .670 |
| 30 | .700 | .865 | .920 |

- NOTES
- MATERIAL: BODY: LCP, UL94V-0
LATCH: PPA, UL94V-0
CONTACTS: COPPER ALLOY.
 - PLATING: 50-150µ" NICKEL UNDERPLATE
30 = 30µ" GOLD MIN. ON WIPING AREA WITH 200µ" MATTE TIN ON SOLDER TAIL
00 = GOLD FLASH ON WIPING AREA WITH 100-140µ" MATTE TIN ON SOLDER TAIL.
 - MATING COMPATIBILITY: 3M 1.27mm (0.050"), 451 SERIES RIBBON CABLE SOCKET. TECH SHEET 2436
 - REGULATORY INFORMATION: ROHS COMPLIANT. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.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.
 - REFERENCE PRODUCT SPEC: 3M DOC ID# 78-5102-0091-4
 - OTHER PIN COUNTS AVAILABLE UPON REQUEST. CONTACT 3M.
 - UNLESS OTHERWISE NOTED, REFERENCES TO INDUSTRY SPECIFICATIONS ARE INTENDED TO INDICATE SUBSTANTIAL COMPLIANCE TO THE MATERIAL ELEMENTS OF THE SPECIFICATION. SUCH REFERENCES SHOULD NOT BE CONSTRUED AS A GUARANTEE OF COMPLIANCE TO ALL REQUIREMENTS IN A GIVEN SPECIFICATION.
 - PACKAGING: VERTICAL THRU: TRAY
RIGHT ANGLE THRU: TRAY
VERTICAL SMT: TAPE AND REEL.

THRU BOARD, VERTICAL WITH LOW PROFILE LATCH/EJECT OPTION



THRU BOARD, VERTICAL



POLARIZATION AND FRICTION LATCHING POSITIONS 8-30 ONLY



WITH LATCH/EJECT

PERFORMANCE:

CURRENT RATING: 1.0 A, ALL LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70
1.5 A, 6 LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70
2.5 A, 1 LINE ENERGIZED, 30°C TEMP RISE PER EIA 364-70

UL & CUL VOLTAGE RATING: 125V_{ac}
INSULATION RESISTANCE: > 1 x 10⁹ Ohms AT 500 VDC
WITHSTANDING VOLTAGE: 1250VACrms AT SEA LEVEL
OPERATING TEMPERATURE: -65°C to +125°C
UL & CUL OPERATING TEMPERATURE: +125°C
PROCESSING TEMPERATURE: 260°C
LEAD-FREE SOLDERABLE: YES
MOISTURE SENSITIVITY LEVEL: MSL1 PER J-STD-020



RECOMMENDED BOARD LAYOUT

452 XX - X X 0 2 XX
SERIES
POSITION COUNT
04 - 30
SEE TABLE 1

PLATING
00 = AU FLASH
30 = 30µ" GOLD

CONTACT TAIL
2 = STANDARD (.094")

PART CONFIG. AND PACKAGING
6 = VERTICAL THRU HOLE, TRAY PACKAGING
5 = RIGHT ANGLE THRU HOLE, TRAY PACKAGING
2 = VERTICAL SMT, TAPE AND REEL WITH VAC CAP

LATCH/EJECT
0 = NO LATCHES
2 = WITH LOW PROFILE LATCHES

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

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INFORMATION CALL 800-225-5373

3M
UL FILE NO: E68080

| | | | | | | | |
|--------------------------------------|------------------|--|--------------|--|----------------------------|--------|------|
| 78-5100-2436-3 78-5100-2396-9 | DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| ARM | NOV 29, 2012 | PRC | NOV 29, 2012 | | | | |
| SAN | NOV 29, 2012 | SAN | NOV 29, 2012 | | | | |
| DIVISION: Interconnect Solutions | | ISD | | © 3M COPYRIGHT 2014 | | | |
| DO NOT SCALE DRAWING | | SCALE: 6-1 | | TOLERANCES EXCEPT AS NOTED | | | |
| THIRD ANGLE PROJECTION | | INCHES: .00 ±.01, .00 ±.02, .000 ±.010, .0000 ±.0050 | | MILLIMETERS: 0, .0 ±.01, .00 ±.02, .00 ±.010, .00 ±.0050 | | | |
| MAX SURFACE ROUGHNESS: 12.5 SURFACES | | MARKED ONLY | | 3M St. Paul, MN 55144 | | | |
| INTERPRET PER ASME Y14.5 - 2009 | | CAGE NUMBER: D78-5100-2437-1 | | DRAWING NO. 78-5100-2437-1 | | REV. F | |
| MODEL | | SHT 1 OF 4 | | 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. | | | |

Imaged: F.1 9/24/2014 9:06 AM UTC-05:00

3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES

TABLE 1: RIGHT ANGLE THRU

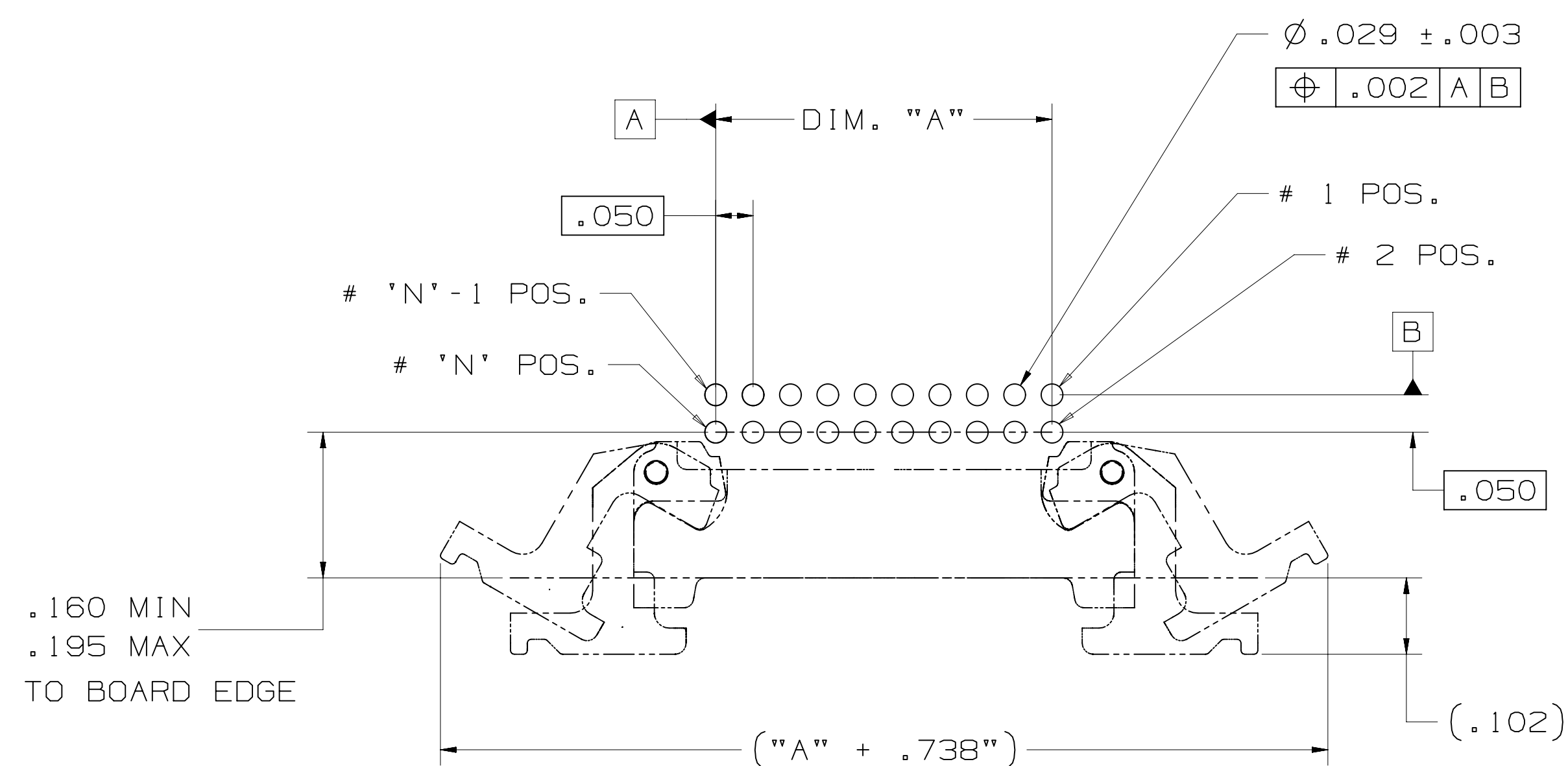
| No. Positions | Dim "A" | Dim "B" | Dim "C" |
|---------------|---------|---------|---------|
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| 6 | .100 | .265 | .320 |
| 8 | .150 | .315 | .370 |
| 10 | .200 | .365 | .420 |
| 12 | .250 | .415 | .470 |
| 14 | .300 | .465 | .520 |
| 16 | .350 | .515 | .570 |
| 20 | .450 | .615 | .670 |
| 30 | .700 | .865 | .920 |



THRU BOARD, RIGHT ANGLE



WITH LATCH/EJECT



RECOMMENDED BOARD LAYOUT

78-5100-2436-3
78-5100-2396-9

DESIGN REFERENCE NEXT ASSEMBLY

| REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
|------|-----|----------------------------|--------------|--------------|
| DRFT | ARM | NOV 29, 2012 PRC | NOV 29, 2012 | NOV 29, 2012 |
| DRFT | SAN | NOV 29, 2012 SAN | NOV 29, 2012 | NOV 29, 2012 |

DIVISION CODE

Interconnect Solutions ISD

DO NOT SCALE DRAWING

SCALE 6/1

TOLERANCES EXCEPT AS NOTED

INCHES

.0 ± .1

.00 ± .02

.000 ± .010

.0000 ± .0050

MILLIMETERS

0 ±

.0 ±

.00 ±

.000 ±

MARKED ONLY

ANGLES

| | | | | | |
|---|-------|--------------|------------------------------------|-----|-----|
| F | 56988 | SEP 24, 2014 | REVISE PERFORMANCE CHART | JNC | SN |
| E | 54514 | JUN 19, 2014 | ADD UL LOGO, ADD 56MM T&R | SJS | SAN |
| D | 51884 | JAN 08, 2014 | ADD DESIGN REF, UPDATE TITLE | SJS | SAN |
| C | 50290 | OCT 08, 2013 | REVISE NOTE 1, 9 & OPERATING TEMP. | JNC | SN |
| B | 48635 | JUL 12, 2013 | MATCH TEXT FONTS & ADD NOTE 9 | JNC | SN |
| A | 46797 | MAR 25, 2013 | PRODUCTION RELEASE | JNC | SAN |

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3M Center St. Paul, MN 55144

TITLE BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES

CAGE NUMBER D78-5100-2437-1

REV. F

MODEL

DET. [] YES [X] NO

SHT 2 OF 4

78-5100-2437-1 F REVISION DRAWING NUMBER AM UTC-05:00 9/24/2014 9:06

3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES

TABLE 1: VERTICAL SMT

| No. Positions | Dim "A" | Dim "B" | Dim "C" |
|---------------|---------|---------|---------|
| 4 | .050 | .215 | .270 |
| 6 | .100 | .265 | .320 |
| 8 | .150 | .315 | .370 |
| 10 | .200 | .365 | .420 |
| 12 | .250 | .415 | .470 |
| 14 | .300 | .465 | .520 |
| 16 | .350 | .515 | .570 |
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SURFACE MOUNT, VERTICAL



RECOMMENDED BOARD LAYOUT



SHROUDED SMT HEADER



VACUUM CAP SEATED ON TOP
EDGES OF END WALLS ON
POSITIONS 4 AND 6



WITH VACUUM CAP



WITH LATCH/EJECT



WITH LATCH/EJECT
AND VACUUM CAP
VACUUM CAP IS FULLY SEATED
ON POSITIONS 8 THRU 30

| REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
|-----|-------|--|------|------|
| F | 56988 | SEP 24, 2014 REVISE PERFORMANCE CHART | JNC | SN |
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| A | 46797 | MAR 25, 2013 PRODUCTION RELEASE | JNC | SAN |

78-5100-2436-3
78-5100-2396-9

DESIGN REFERENCE NEXT ASSEMBLY

| DRFT | DATE | DRFT | DATE |
|------|--------------|------|--------------|
| ARM | NOV 29, 2012 | PRC | NOV 29, 2012 |
| SAN | NOV 29, 2012 | SAN | NOV 29, 2012 |

DIVISION: Interconnect Solutions

SCALE: 6/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS

MARKED ONLY

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TITLE: BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES

CAGE NUMBER: D78-5100-2437-1

REV. F

78-5100-2437-1 F REVISION
IMAGED: F.1 9/24/2014 9:06 AM UTC-05:00

3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES

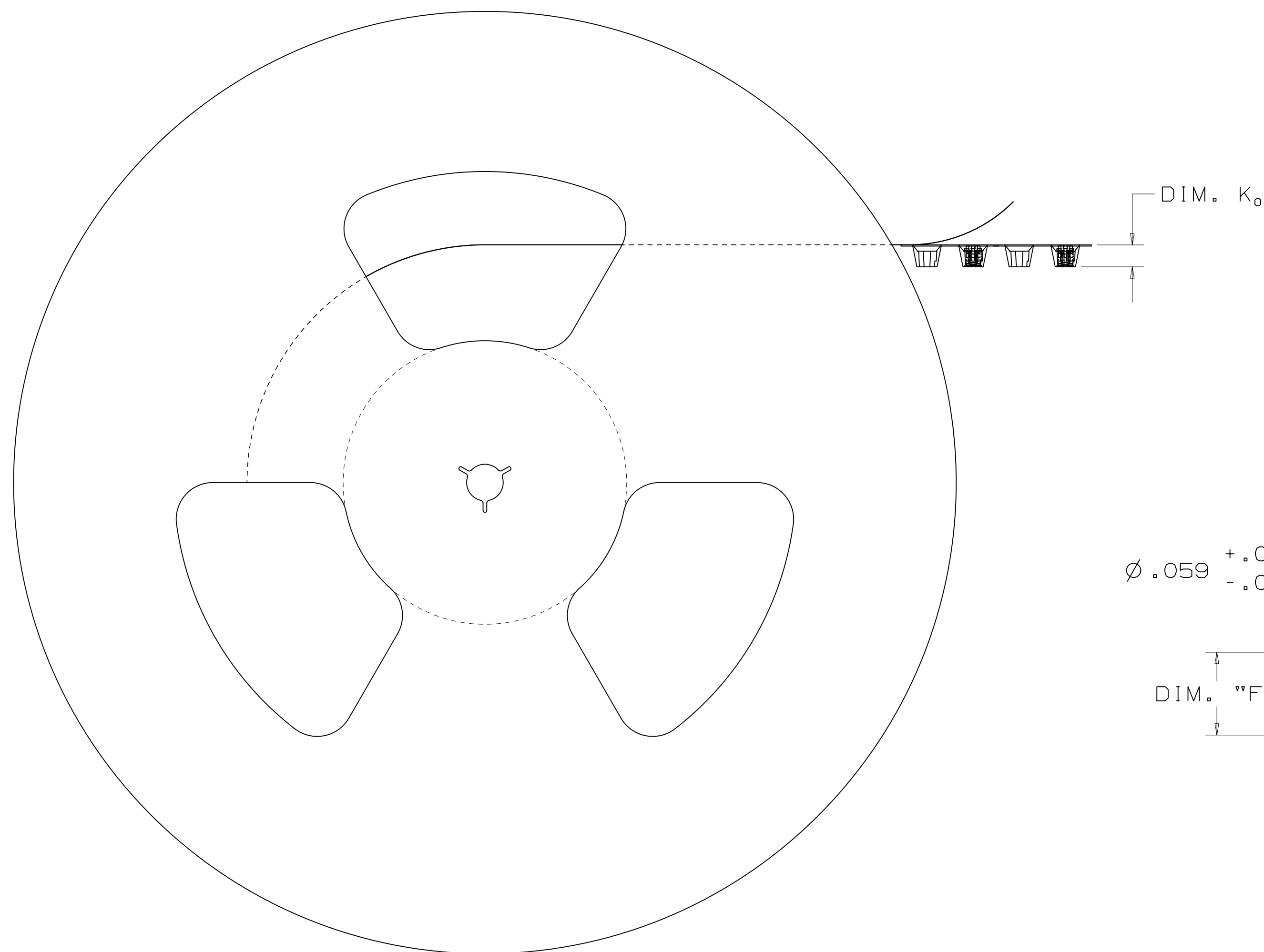


TABLE 2
TAPE AND REEL PACKAGING FOR SURFACEMOUNT HEADERS

| POS | LATCHES | DIM. "F" | DIM. K ₀ | DIM. S ₀ | DIM. "W" |
|-----|---------|----------|---------------------|---------------------|----------------|
| 4 | NO | .453 | .263 | .876 | .945 [24MM] |
| 4 | YES | .453 | .300 | .876 | 1.260 [32MM] |
| 6 | NO | .453 | .238 | .876 | .945 [24MM] |
| 6 | YES | .559 | .300 | 1.118 | 1.260 [32MM] |
| 8 | NO | .453 | .238 | .876 | .945 [24MM] |
| 8 | YES | .559 | .300 | 1.118 | 1.732 [44MM] |
| 10 | NO | .453 | .238 | .876 | .945 [24MM] |
| 10 | YES | .559 | .300 | 1.118 | 1.732 [44MM] |
| 12 | NO | .453 | .238 | .876 | .945 [24MM] |
| 12 | YES | .559 | .300 | 1.118 | 1.732 [44MM] |
| 14 | NO | .453 | .238 | .876 | .945 [24MM] |
| 14 | YES | .795 | .300 | 1.591 | 1.732 [44MM] |
| 16 | NO | .453 | .238 | .876 | .945 [24MM] |
| 16 | YES | .795 | .300 | 1.591 | 1.732 [44MM] |
| 20 | NO | .559 | .238 | 1.118 | 1.260 [32MM] |
| 20 | YES | .795 | .300 | 1.591 | 1.732 [44MM] |
| 30 | NO | .795 | .238 | 1.591 | 1.732 [44MM] |
| 30 | YES | .795 | .300 | 1.591 | 2.205 [56MM] |

NOTE:
LATCH EJECT HEADERS ARE PACKAGED WITH THE LATCHES
IN AN OPEN POSITION.



24MM WIDE POCKET TAPE



32MM, 44MM AND 56MM WIDE POCKET TAPE

78-5100-2436-3
78-5100-2396-9

| | |
|---------------------------------|----------------------------|
| DESIGN REFERENCE | NEXT ASSEMBLY |
| ISSUE CODES | ISSUE DATE AND DESCRIPTION |
| DIVISION | DIVISION CODE |
| Interconnect Solutions | ISD |
| DO NOT SCALE DRAWING | TOLERANCES EXCEPT AS NOTED |
| THIRD ANGLE PROJECTION | INCHES |
| INTERPRET PER ASME Y14.5 - 2009 | MILLIMETERS |
| MAX SURFACE ROUGHNESS | ANGLES |
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|--------------|------|--------------|--------------|
| DATE | TIME | DATE | DATE |
| NOV 29, 2012 | PRC | NOV 29, 2012 | NOV 29, 2012 |
| DATE | APPR | DATE | DATE |
| NOV 29, 2012 | SAN | NOV 29, 2012 | NOV 29, 2012 |

| | | | |
|---|------|----------------|--|
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| <p>3M Center St. Paul, MN 55144</p> | | | |
| <p>TITLE BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES</p> | | | |
| CAGE NUMBER | SIZE | DRAWING NO. | REV. |
| D | | 78-5100-2437-1 | F |
| MODEL | DET | LISTS | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| | | SHT | 4 OF 4 |

78-5100-2437-1 F REVISION DRAWING NUMBER
Imaged: F.1 9/24/2014 9:06 AM UTC-05:00



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Наши преимущества:

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- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- 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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Факс: 8 (812) 320-02-42

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