

3M™ FOUR-WALL HEADER, 2500 SERIES

.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE



SECTION C - C

| TABLE 1 | | | | | |
|----------|---------------|---------------|--------------------|------------------------|----------|
| PIN QTY. | DIM. "A" | DIM. "B" | POLARIZING NOTCHES | TAPE AND REEL PKG CODE | PIN QTY. |
| 06 | .588 [14.94] | .508 [12.90] | B | WD (44 MM) | 06 |
| 08 | .688 [17.48] | .608 [15.44] | B | WD (44 MM) | 08 |
| 10 | .788 [20.02] | .708 [17.98] | BC | WD (44 MM) | 10 |
| 14 | .988 [25.10] | .908 [23.06] | BCDE | WD (44 MM) | 14 |
| 16 | 1.088 [27.64] | 1.008 [25.60] | ABCDE | WD (44 MM) | 16 |
| 20 | 1.288 [32.72] | 1.208 [30.68] | ABCDE | WE (56 MM) | 20 |
| 24 | 1.488 [37.80] | 1.408 [35.76] | ABCDE | WE (56 MM) | 24 |
| 26 | 1.588 [40.34] | 1.508 [38.30] | ABCDE | WE (56 MM) | 26 |
| 30 | 1.788 [45.42] | 1.708 [43.38] | ABCDE | WF (72 MM) | 30 |
| 34 | 1.988 [50.50] | 1.908 [48.46] | ABCDE | WF (72 MM) | 34 |
| 36 | 2.088 [53.04] | 2.008 [51.00] | ABCDE | WG (88 MM) | 36 |
| 40 | 2.288 [58.12] | 2.208 [56.08] | ABCDE | WG (88 MM) | 40 |
| 50 | 2.788 [70.82] | 2.708 [68.78] | ABCDE | WG (88 MM) | 50 |
| 60 | 3.288 [83.52] | 3.208 [81.48] | ABCDE | WH (120 MM) | 60 |
| 64 | 3.488 [88.60] | 3.408 [86.56] | ABCDE | WH (120 MM) | 64 |



RECOMMENDED PAD LAYOUT

ORDERING INFORMATION SURFACE MOUNT VERSION

N25XX-6VOC-XX-XX

N = HIGH TEMP BLACK (PCT) (RB PLATING REQ'D)

PIN QUANTITY: (SEE TABLE 1)

PACKAGING OPTIONS: WX = TAPE & REEL PACKAGING (SEE TABLE 1)

PLATING: RB = 30µ" [0.76µm] AVG. GOLD 200µ" [5.08µm] MATTE TIN (RIA, E1 & C1 APPLY)

| | | | | | | |
|----------------------------------|---------------|---|-----|--|------|------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| | | | | AUG 11, 2014 | | |
| DIVISION: Interconnect Solutions | | DIVISION CODE: EMSD | | DATE: AUG 11, 2014 | | |
| DO NOT SCALE DRAWING | | SCALE: 4/1 | | TOLERANCES EXCEPT AS NOTED | | |
| THIRD ANGLE PROJECTION | | INCHES: .00 ± .01, .000 ± .005, .0000 ± | | MILLIMETERS: 0 ±, .0 ± .3, .00 ± .13, .000 ± | | |
| MAX SURFACE ROUGHNESS: SURFACES | | MARKED ONLY | | CAGE NUMBER: D78-5100-0770-7 | | |
| | | | | MODEL: 2500 SERIES | | |
| | | | | REV. N | | |

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3M Center St. Paul, MN 55144

HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA

REV. N

SEP 05, 2014

SHT 4 OF 5

DRAWING NUMBER: 78-5100-0770-7

REVISION: N

AM UTC-05:00

Imaged: N.1 B/5/2016 11:10

3M™ FOUR-WALL HEADER, 2500 SERIES
 .100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE

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.
 * SELECTIVE PIN REMOVAL (FOR BOARD ASSEMBLY POLARIZATION).
 * DIFFERENT PIN LENGTHS.

LOW PROFILE LATCH



| PART NO. | MATERIAL | COLOR |
|----------|----------|-------|
| 3505-33B | NYLON | BLACK |

NOTE:
 LATCHES NOT COMPATIBLE WITH REFLOW SOLDERING.
 ATTACH LATCHES AFTER SOLDERING.

POLARIZING POST



| PART NO. | MATERIAL | COLOR |
|----------|----------|-------|
| 3201-3 | PCT | BLACK |

POLARIZING KEY



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

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

SHORT/LONG SOCKET RETAINER CLIP



| PIN QTY. | DIM. "A" |
|----------|-------------|
| 06 | N/A |
| 08 | N/A |
| 10 | .81 [20.6] |
| 14 | 1.02 [25.9] |
| 16 | 1.12 [28.4] |
| 20 | 1.32 [33.5] |
| 24 | 1.52 [38.7] |
| 26 | 1.63 [41.4] |
| 30 | 1.83 [46.4] |
| 34 | 2.03 [51.6] |
| 36 | N/A |
| 40 | 2.33 [59.2] |
| 50 | 2.83 [71.9] |
| 60 | 3.33 [84.6] |
| 64 | 3.53 [89.7] |

NOTE:
 STAINLESS STEEL WITH GRAY POLYURETHANE COATING.

3505-8XXX
 CLIP HEIGHT CODE _____ PIN COUNT (SEE TABLE)
 0 = .31 [7.9] FOR SOCKETS WITHOUT STRAIN RELIEF
 1 = .53 [13.5] FOR SOCKETS WITH STRAIN RELIEF

NOTE:
 1) THE FOLLOWING RETAINER CLIPS HAVE BEEN DISCONTINUED:
 3505-8064
 3505-8124
 3505-8150

| | | | | | | |
|------------------------|---------------------------------|---|---|----------------------------|------|------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| ACROSS CODES | | CASTIGLIONE | | AUG 11, 2014 | | |
| DIVISION | DIVISION CODE | DATE | DATE | DATE | DATE | DATE |
| Interconnect Solutions | EMSD | | | | | |
| DO NOT SCALE DRAWING | SCALE 4/1 | TOLERANCES EXCEPT AS NOTED | INCHES .00 ± .01 .000 ± .005 .0000 ± | | | |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 | MILLIMETERS | 0 ± .3 .00 ± .13 .000 ± | | | |
| MAX SURFACE ROUGHNESS | MARKED ONLY | ANGLES | 3M Center St. Paul, MN 55144 © 3M COPYRIGHT 2016 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 | | HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA | | | | |
| CAGE NUMBER | SIZE | DRAWING NO. | REV. | MODEL 2500 SERIES | | |
| D | | 78-5100-0770-7 | N | SHT 5 OF 5 | | |

78-5100-0770-7
 11:10 AM UTC-05:00
 N REVISION
 C
 B
 A