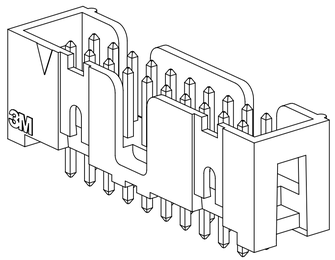
3M™ FOUR-WALL HEADER, 2500 SERIES

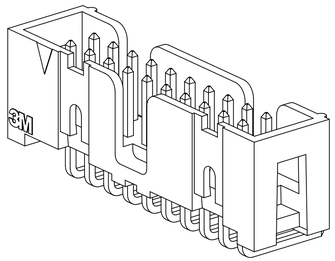
.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE

* LOW PROFILE, SPACE SAVING DESIGN.
* CENTER SLOT POLARIZATION PREVENTS MIS-INSERTIONS AND REDUCES INSERTION TIME.
* DUAL SLOT POLARIZATION MEANS BROADER COMPATIBILITY WITH COMPETITIVE POLARIZATION DESIGNS (NOT AVAILABLE ON 6, 8 OR 10 POSITIONS).
* OPTIONAL RETAINER CLIP FOR LOCKING SOCKETS IN PLACE AND INCREASING CONNECTION RELIABILITY IN VIBRATION-PRONE ENVIRONMENTS.
* HIGH TEMPERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS.
* THROUGH HOLE VERSION SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" TECHNIQUES.
* EXPOSED SOLDER TAILS (ON RIGHT ANGLE VERSION) PROVIDE EASE OF CLEANING AND REDUCED REPAIR COST.
* STRAIGHT SURFACE MOUNT VERSION AVAILABLE.



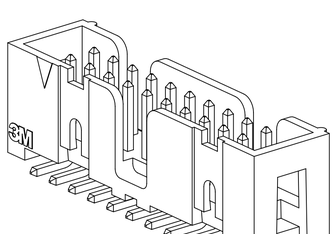
25XX-60XX

STRAIGHT VERSION



25XX-50XX

RIGHT ANGLE VERSION



25XX-6V0C

SURFACE MOUNT VERSION

[2] PHYSICAL:

INSULATOR:	
MATERIAL:	GLASS FILLED POLYESTER (PCT)
FLAMMABILITY:	UL94V-0
COLOR:	BLACK
CONTACT:	
MATERIAL:	COPPER ALLOY
PLATING:	
UNDER PLATING:	100μ" [2.54μm] NICKEL-OVERALL
WIPING AREA:	AVG. GOLD (SEE ORDERING INFORMATION)
SOLDER TAILS:	200μ" [5.08μm] TIN LEAD OR MATTE TIN (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)

NOTES

1. REGULATORY INFORMATION: ROHS COMPLIANT. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.COM FOR COMPLIANCE INFORMATION.
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. CONTACT TAILS .0245 [.622] WIDE WITH .0075 [.191] CORNER RADII AND .028 [.072] DIAGONAL.
5. SOLDER STANDOFFS FACILITATE .01 [.3] CLEARANCE ABOVE BOARD FOR REFLOW SOLDERING.

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

UL FILE NO: E68080

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

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
N	68908	AUG 02,2016 REVISE DIM ON SHT2 & CLIP CHART ON SHT5	JNC	SC
M	56068	AUG 11,2014 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE | NEXT ASSEMBLY | ACCESS CODES

DRFT: CASTIGLIONE, DATE: AUG 11,2014 | MFG, DATE

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

DIVISION: Interconnect Solutions | DIVISION CODE: EMSD

DO NOT SCALE DRAWING | SCALE 4/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

INCHES: .0 ±, .00 ±.01, .000 ±.005, .0000 ±

MILLIMETERS: 0 ±, .0 ±.3, .00 ±.13, .000 ±

ANGLES ±

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

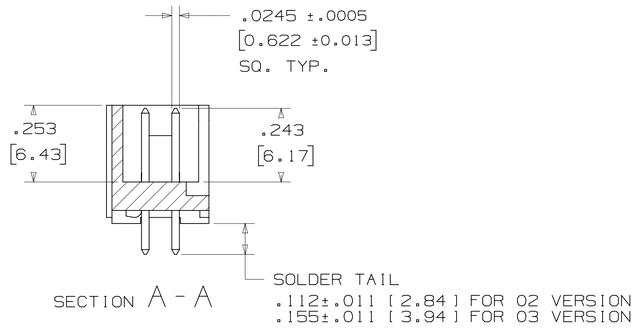
CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0770-7 | REV.: N

MODEL: 2500 SERIES | DET. LISTS ☐ YES ☒ NO | SHT 1 OF 5

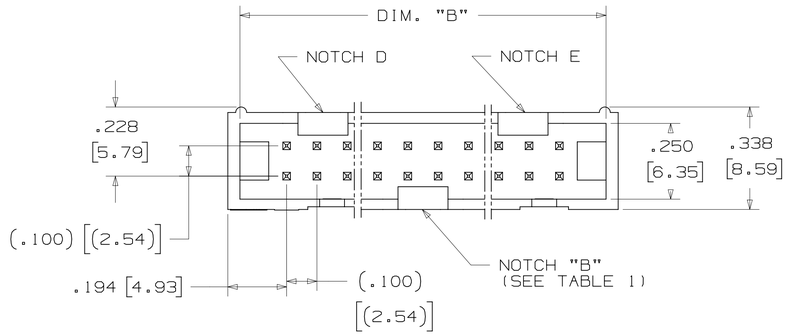
78-5100-0770-7 | N

3M™ FOUR-WALL HEADER, 2500 SERIES

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



SECTION A - A



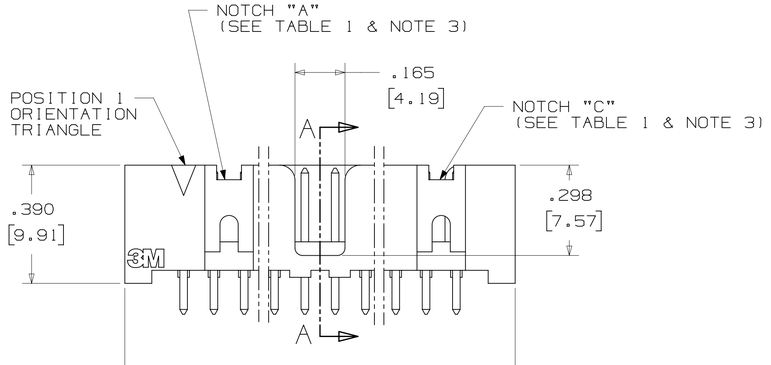
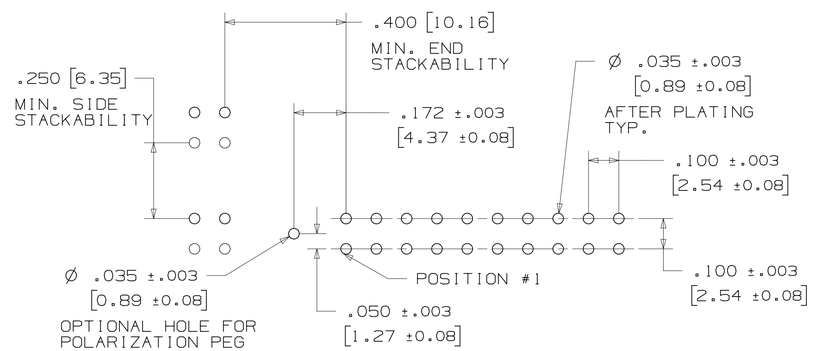


TABLE 1				
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	06
08	.688 [17.48]	.608 [15.44]	B	08
10	.788 [20.02]	.708 [17.98]	BC	10
14	.988 [25.10]	.908 [23.06]	BCDE	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20
24	1.488 [37.80]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



RECOMMENDED HOLE PATTERN

SHOWN FROM COMPONENT SIDE

ORDERING INFORMATION
STRAIGHT VERSION

X25XX-60XX-XX

N= HIGH TEMP BLACK (PCT)
(RB, UB OR UG PLATING REQ'D)
BLANK= (UB OR UG PLATING)

PIN QUANTITY:
(SEE TABLE 1)

SOLDER TAIL:
02 = FOR .062 [1.57] THICK BOARD
03 = FOR .094 TO .125 [2.39 TO 3.18]
THICK BOARD

PLATING:
RB = 30μ" [0.76μm] AVG. GOLD
200μ" [5.08μm] MATTE TIN (RIA. E1 & C1 APPLY)
UG = 15μ" [0.38μm] AVG. GOLD
200μ" [5.08μm] 60:40 TIN-LEAD SOLDER TAILS
(RIA E3 & C2 APPLY)
UB = 30μ" [0.76μm] AVG. GOLD
200μ" [5.08μm] 60:40 TIN LEAD SOLDER TAILS
(RIA E3 & C2 APPLY)

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
N	68908	AUG 02,2016 REVISE DIM ON SHT2 & CLIP CHART ON SHT5	JNC	SC
M	56068	AUG 11,2014 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE: —
NEXT ASSEMBLY: —
ACCESS CODES: —
DRFT: CASTIGLIONE, DATE: AUG 11,2014
MFG: —, DATE: —
CHKD: —, DATE: —
APPVL: R. SCHERER, DATE: SEP 05,2014
DIVISION: Interconnect Solutions
DIVISION CODE: EMSD
DO NOT SCALE DRAWING
SCALE: 4:1
TOLERANCES EXCEPT AS NOTED:
INCHES: .0 ±, .00 ±.01, .000 ±.005, .0000 ±
MILLIMETERS: 0 ±, .0 ±.3, .00 ±.13, .000 ±
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 2009
MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY
ANGLES ±

3M Center, St. Paul, MN 55144

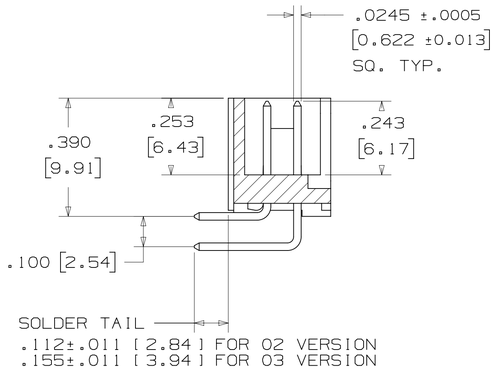
TITLE: HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA

CAGE NUMBER: —
SIZE: D
DRAWING NO.: 78-5100-0770-7
REV.: N
MODEL: 2500 SERIES
DET. LISTS ☐ YES ☒ NO
SHT 2 OF 5

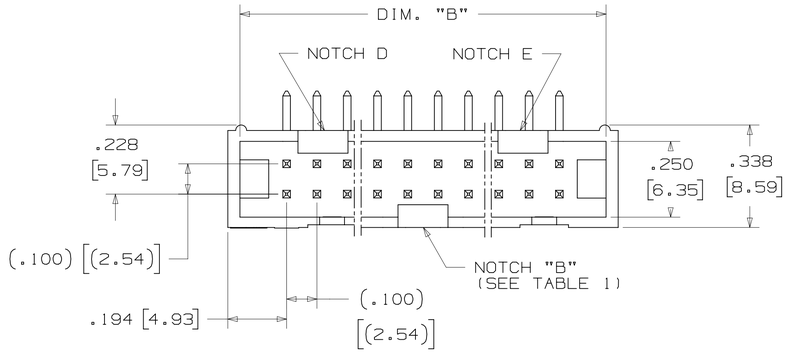
78-5100-0770-7 N

3M™ FOUR-WALL HEADER, 2500 SERIES

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



SECTION B - B



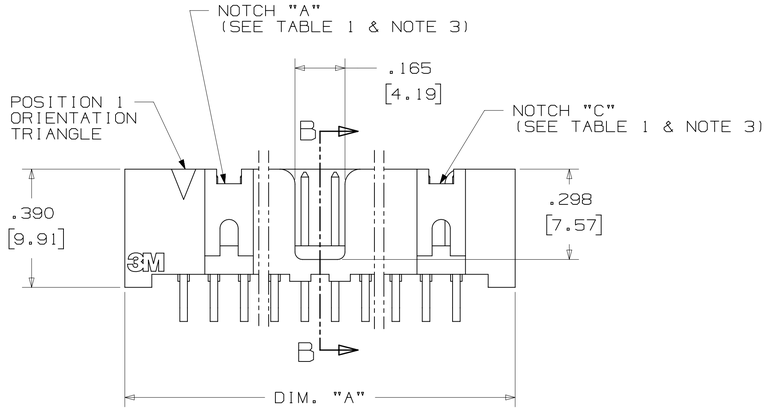
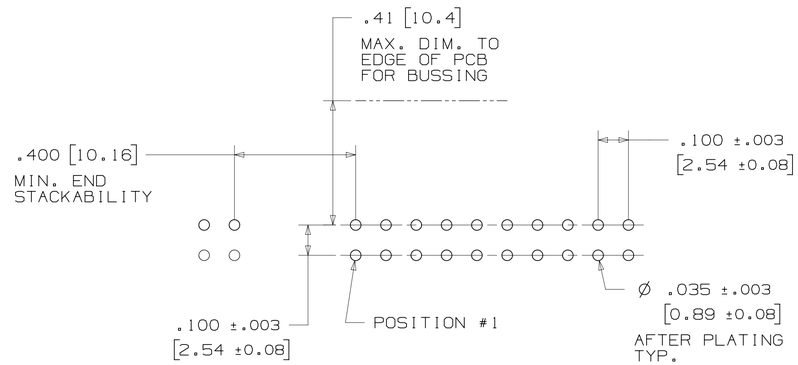


TABLE 1				
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	06
08	.688 [17.48]	.608 [15.44]	B	08
10	.788 [20.02]	.708 [17.98]	BC	10
14	.988 [25.10]	.908 [23.06]	BCDE	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20
24	1.488 [37.80]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



ORDERING INFORMATION
RIGHT ANGLE VERSION

X25XX-50XX-XX

N= HIGH TEMP BLACK (PCT)
(RB, UB OR UG PLATING REQ'D)
BLANK= (UB OR UG PLATING)

PIN QUANTITY:
(SEE TABLE 1)

SOLDER TAIL:
02 = FOR .062 [1.57] THICK BOARD
03 = FOR .094 TO .125 [2.39 TO 3.18]
THICK BOARD

PLATING:
RB = 30μ" [0.76μm] AVG. GOLD
200μ" [5.08μm] MATTE TIN (RIA. E1 & C1 APPLY)
UG = 15μ" [0.38μm] AVG. GOLD
200μ" [5.08μm] 60:40 TIN-LEAD SOLDER TAILS
(RIA E3 & C2 APPLY)
UB = 30μ" [0.76μm] AVG. GOLD
200μ" [5.08μm] 60:40 TIN LEAD SOLDER TAILS
(RIA E3 & C2 APPLY)

RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
N	68908	AUG 02,2016 REVISE DIM ON SHT2 & CLIP CHART ON SHT5	JNC	SC
M	56068	AUG 11,2014 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE: NEXT ASSEMBLY
ADDED CODES:
DRFT: CASTIGLIONE — DATE: AUG 11,2014 — MFG: — DATE:
CHKD: — DATE: — APPVL: R. SCHERER — DATE: SEP 05,2014

DIVISION: Interconnect Solutions
DIVISION CODE: EMSD
DO NOT SCALE DRAWING
SCALE: 4:1
TOLERANCES EXCEPT AS NOTED:
INCHES: .0 ± / .00 ±.01 / .000 ±.005 / .0000 ±
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 2009
MILLIMETERS: 0 ± / .0 ±.3 / .00 ±.13 / .000 ±
MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY
ANGLES ±

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

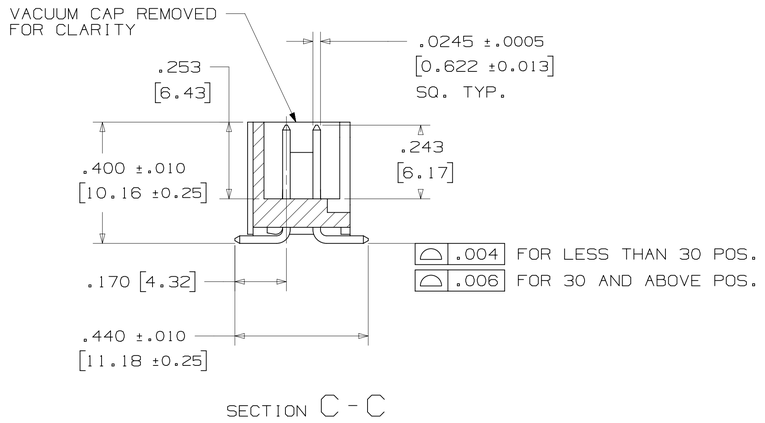
CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0770-7 | REV.: N

MODEL: 2500 SERIES | DET. LISTS ☐ YES ☒ NO | SHT 3 OF 5

78-5100-0770-7 (DATA PKG NUMBER) | N (REVISION)

3M™ FOUR-WALL HEADER, 2500 SERIES

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



SECTION C - C

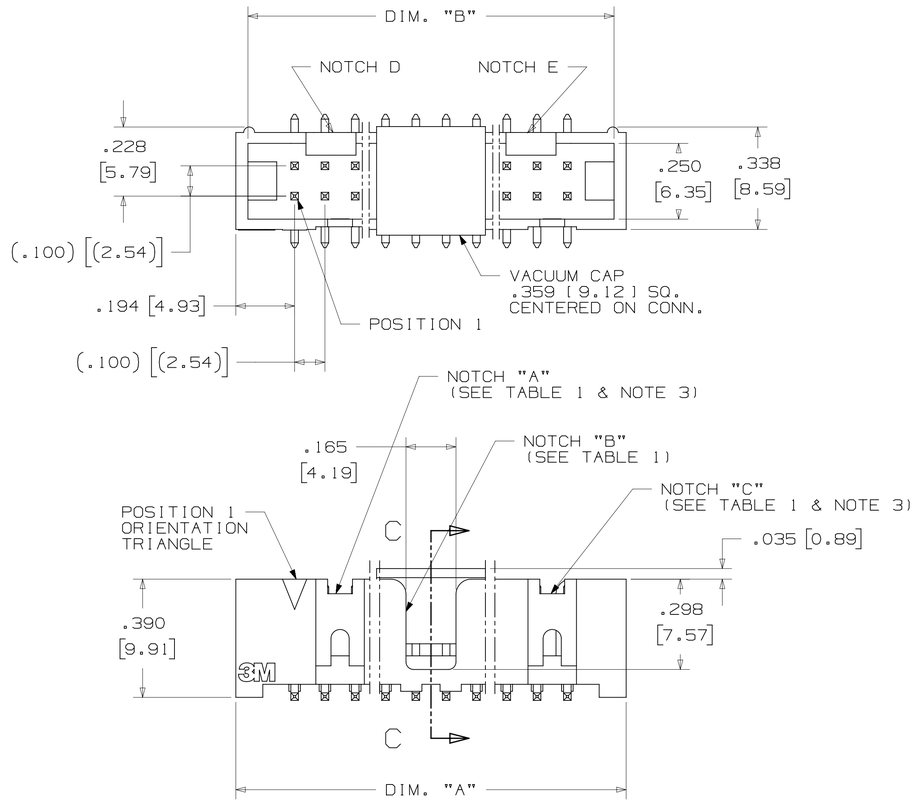
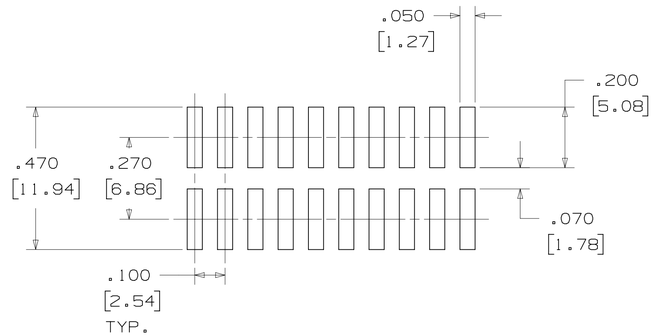


TABLE 1					
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	TAPE AND REEL PKG CODE	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	WD (44 MM)	06
08	.688 [17.48]	.608 [15.44]	B	WD (44 MM)	08
10	.788 [20.02]	.708 [17.98]	BC	WD (44 MM)	10
14	.988 [25.10]	.908 [23.06]	BCDE	WD (44 MM)	14
16	1.088 [27.64]	1.008 [25.60]	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-6V0C-XX-XX

- N = HIGH TEMP BLACK (PCT) (RB PLATING REQ'D)
- PIN QUANTITY: (SEE TABLE 1)
- PLATING: RB = 30μ" [0.76μm] AVG. GOLD, 200μ" [5.08μm] MATTE TIN (RIA. E1 & C1 APPLY)
- PACKAGING OPTIONS: WX = TAPE & REEL PACKAGING (SEE TABLE 1)

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
N	68908	AUG 02,2016 REVISE DIM ON SHT2 & CLIP CHART ON SHT5	JNC	SC
M	56068	AUG 11,2014 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE: NEXT ASSEMBLY
ACCESS CODES:
DRAFT: CASTIGLIONE, DATE: AUG 11,2014, MFG, DATE
CHKD, DATE, APPVL: R. SCHERER, DATE: SEP 05,2014
DIVISION: Interconnect Solutions
DIVISION CODE: EMSD
DO NOT SCALE DRAWING
SCALE 4 1
TOLERANCES EXCEPT AS NOTED
INCHES
.0 :
.00 : .01
.000 : .005
.0000 :
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 2009
MILLIMETERS
0 :
.0 : .3
.00 : .13
.000 :
MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY
ANGLES ±

3M Center, St. Paul, MN 55144

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

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0770-7 | REV.: N

MODEL: 2500 SERIES | DET LISTS ☐ YES ☒ NO | SHT 4 OF 5

78-5100-0770-7 N

Imaged: N.1 8/5/2016 11:10 AM UTC-05:00

3M™ FOUR-WALL HEADER, 2500 SERIES

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

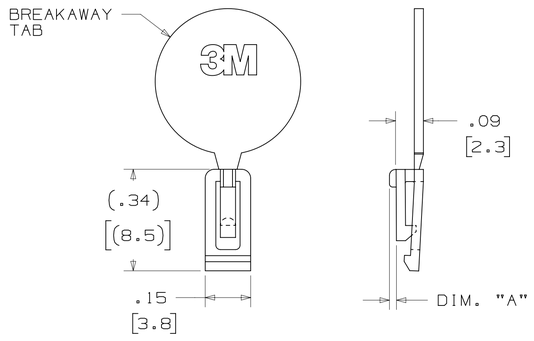
PART CUSTOMIZATION

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.

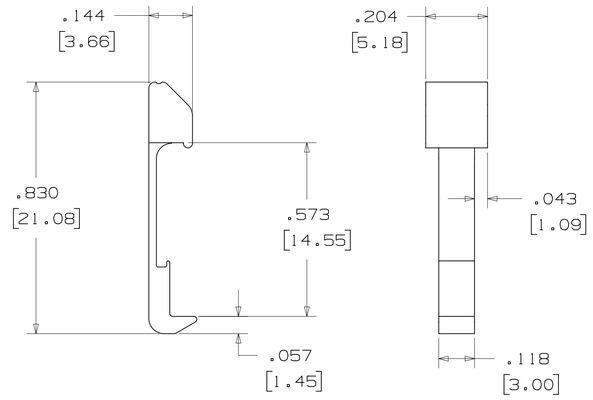
POLARIZING KEY



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

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

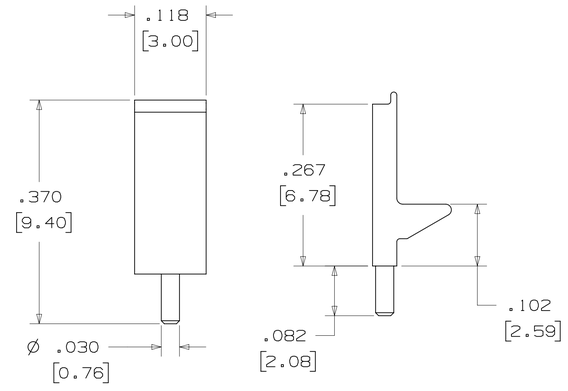
LOW PROFILE LATCH



PART NO.	MATERIAL	COLOR
3505-33B	NYLON	BLACK

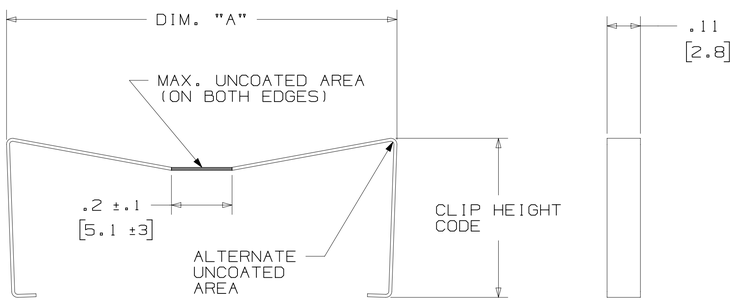
NOTE:
LATCHES NOT COMPATIBLE WITH REFLOW SOLDERING.
ATTACH LATCHES AFTER SOLDERING.

POLARIZING POST



PART NO.	MATERIAL	COLOR
3201-3	PCT	BLACK

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
0 = .31 [7.9] FOR SOCKETS WITHOUT STRAIN RELIEF
1 = .53 [13.5] FOR SOCKETS WITH STRAIN RELIEF

PIN COUNT (SEE TABLE)

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

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
N	68908	AUG 02,2016 REVISE DIM ON SHT2 & CLIP CHART ON SHT5	JNC	SC
M	56068	AUG 11,2014 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE | NEXT ASSEMBLY | ACCESS CODES

DRFT: CASTIGLIONE | DATE: AUG 11,2014 | MFG | DATE

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

DIVISION: Interconnect Solutions | DIVISION CODE: EMSD

DO NOT SCALE DRAWING | SCALE 4/1

TOLERANCES EXCEPT AS NOTED
INCHES: .0 ± | .00 ± .01 | .000 ± .005 | .0000 ±
MILLIMETERS: 0 ± | .0 ± .3 | .00 ± .13 | .000 ±
ANGLES ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES | ☐ MARKED ONLY

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

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0770-7 | REV.: N

MODEL: 2500 SERIES | DET LISTS ☐ YES ☒ NO | SHT 5 OF 5

78-5100-0770-7 N

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

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

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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