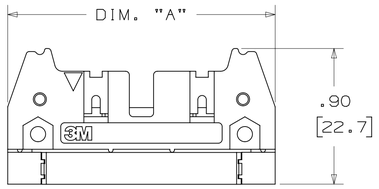
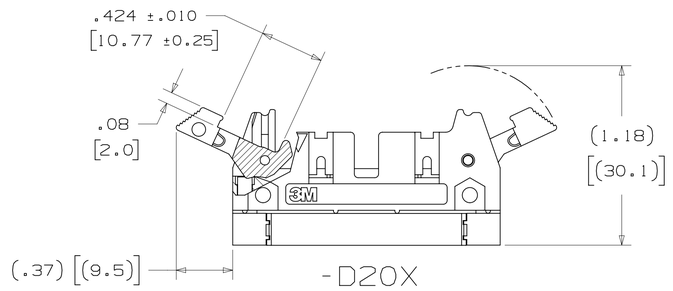
3M™ THREE-WALL CONDO HEADER, 3000 SERIES

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



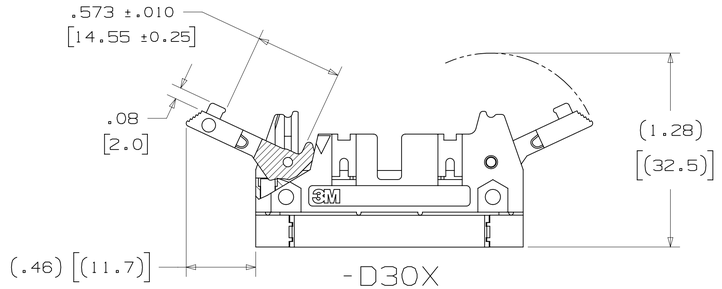
-D00X

HEADER WITHOUT LATCH EJECTOR



-D20X

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



-D30X

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

* STACKED PINS CONSERVE SPACE ON THE CIRCUIT BOARD ALLOWING HIGHER DENSITY PACKAGING.
* PIN QUANTITY TO 128 GIVES DESIGN FLEXIBILITY WITH LATCHING.
* "HDI" ALTERNATIVE.
* THREE-WALL FITS IN VME BOARD STACKING CRITERIA.
* ACCEPTS STANDARD IDC SOCKETS.
* MATES WITH STANDARD FLAT CABLE HARNESSES.
* HIGH TERMERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS.
* SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" TECHNIQUES.

[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:	30μ" [0.76μm] AVG. GOLD
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:	1A (EIA 364-70)
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. 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.

ORDERING INFORMATION

X3XXX-DXXXXX

- N= HIGH TEMP BLACK (PCT)/(RB PLATING REQ'D) BLANK= (UB PLATING)
- 3M PART NUMBER: (SEE TABLE 1)
- LATCH/EJECTOR SYSTEM:
  - 0 = NO LATCH/EJECTOR INSTALLED
  - 2 = SHORT ROLL PIN LATCH/EJECTORS
  - 3 = LONG ROLL PIN LATCH/EJECTORS
- PLATING:
  - RB = 30μ" [0.76μm] GOLD AND 200μ" [5.08μm] MATTE TIN (APP. E1 & C1 APPLY)
  - UB = 30μ" [0.76μm] GOLD AND 200μ" [5.08μm] TIN LEAD (APP. E3 & C2 APPLY)
- TAIL:
  - 02 = FOR .062 [1.57] THICK BOARD
  - 03 = FOR .094 TO .125 [2.39 TO 3.18] THICK BOARD

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

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING INFORMATION CALL 800-225-5373

UL FILE NO: E68080

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

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
K	60056	MAR 06,2015 REVISE ORDERING NUMBER	JNC	RS
J	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
SCALE 2/1
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 ±

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3M Center, St. Paul, MN 55144

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

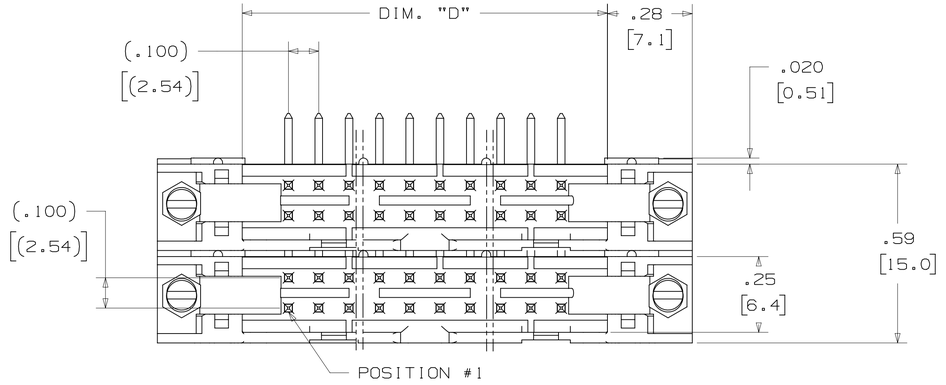
CAGE NUMBER — SIZE: D — DRAWING NO.: 78-5100-0773-1 — REV.: K
MODEL: 3000 SERIES — DET LISTS ☐ YES ☒ NO — SHT 1 OF 3

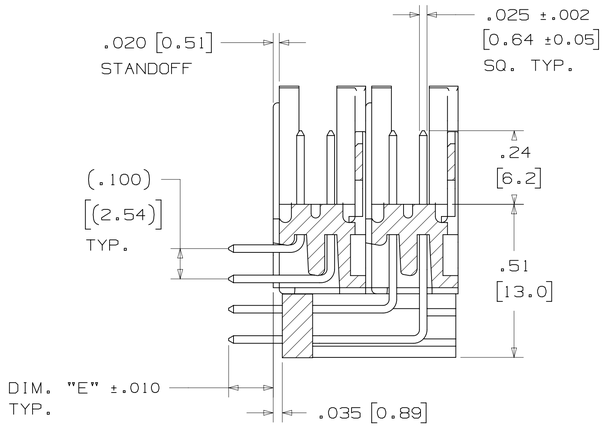
78-5100-0773-1 (DRAWING NUMBER) K (REVISION)

Image: K.1 3/6/2015 12:56 PM UTC-06:00

3M™ THREE-WALL CONDO HEADER, 3000 SERIES

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





SECTION A - A

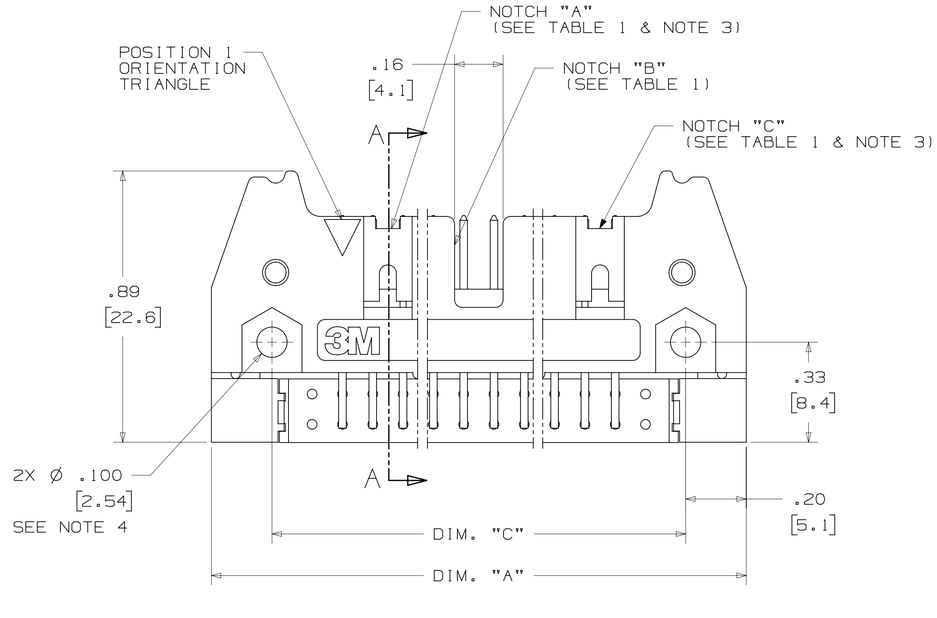


TABLE 1						
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	PIN QTY.
20	3793	1.26 [32.1]	.865 [21.97]	.71 [18.0]	BC	20
28	3314	1.46 [37.2]	1.065 [27.05]	.91 [23.1]	BC	28
32	3408	1.56 [39.7]	1.165 [29.59]	1.01 [25.6]	ABC	32
40	3428	1.76 [44.8]	1.365 [34.67]	1.21 [30.7]	ABC	40
48	3627	1.96 [49.9]	1.565 [39.75]	1.41 [35.8]	ABC	48
52	3429	2.06 [52.4]	1.665 [42.29]	1.51 [38.3]	ABC	52
60	3440	2.26 [57.5]	1.865 [47.37]	1.71 [43.4]	ABC	60
68	3431	2.46 [62.6]	2.065 [52.45]	1.91 [48.5]	ABC	68
80	3432	2.76 [70.2]	2.365 [60.07]	2.21 [56.1]	ABC	80
100	3433	3.26 [82.9]	2.865 [72.77]	2.71 [68.8]	ABC	100
120	3372	3.76 [95.6]	3.365 [85.47]	3.21 [81.5]	ABC	120
128	3764	3.96 [100.7]	3.565 [90.55]	3.41 [86.6]	ABC	128

TABLE 2		
3M PART NUMBER SUFFIX	CONTACT TAIL	DIM. "E"
-XX02	02	.112 [2.84]
-XX03	03	.155 [3.94]

NOTE:
.112 [2.84] TAIL LENGTH SUITABLE FOR
.062 [1.57] THICK PC BOARD.

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K	60056	MAR 06,2015 REVISE ORDERING NUMBER	JNC	RS
J	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 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

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

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-0773-1 | REV. K

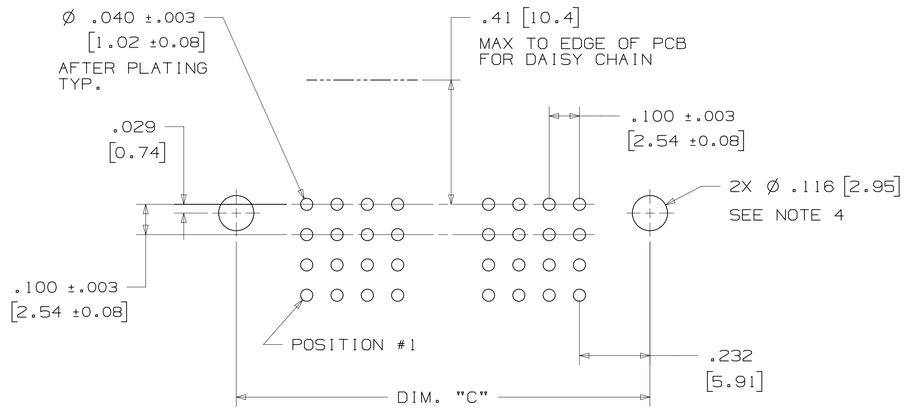
MODEL 3000 SERIES | DET. LISTS ☐ YES ☒ NO | SHT 2 OF 3

78-5100-0773-1 DRAWING NUMBER | K REVISION

Imaged: K.1 3/6/2015 12:56 PM UTC-06:00

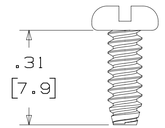
3M™ THREE-WALL CONDO HEADER, 3000 SERIES

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



RECOMMENDED MOUNTING HOLE PATTERN

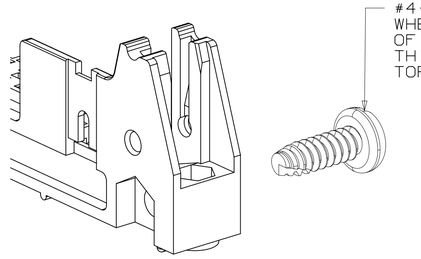
MOUNTING HARDWARE



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



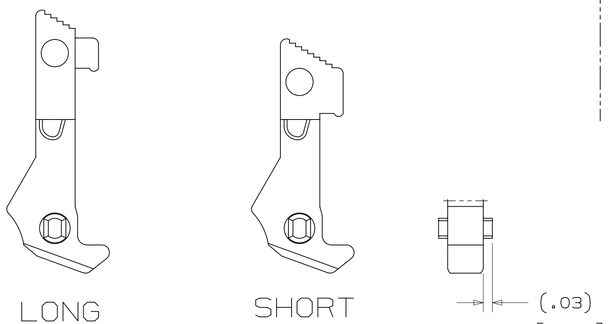
PART CUSTOMIZATION

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.

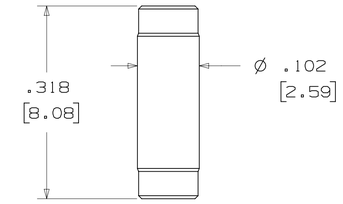
MATERIAL	SHORT LATCH	LONG LATCH	LATCH STYLE	COLOR
HIGH TEMP. (PCT)	N3505-2B	N3505-3B	ROLL PIN	BLACK
HIGH TEMP (PPA)	N3505-30B	N3505-31B	SNAP-IN	BLACK



SNAP-IN LATCHES

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

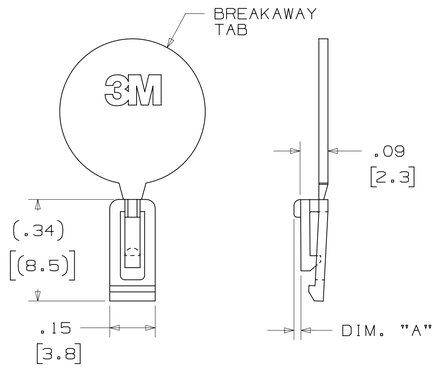
POLARIZING POST



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.

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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

3M 3M Center St. Paul, MN 55144

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MODEL: 3000 SERIES | DET LISTS ☐ YES ☒ NO | SHT 3 OF 3

78-5100-0773-1 [DRAWING NUMBER] | K [REVISION]

Imaged: K.1 3/6/2015 12:56 PM UTC-06:00