

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



X3XXX-XXXXXX

UL[®]
US
UL FILE NO: E68080

- 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 (R1A) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.COM FOR COMPLIANCE INFORMATION.
2. IN THE EVENT OF CONFLICT CONTAINED IN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENCE.
3. NOTCHES A & C WILL ACCOMMODATE 3M POLARIZING KEY: N3518).
4. MOUNTING HARDWARE: FROM SOLDER SIDE OF PC BOARD USE #4-24 THREAD CUTTING SCREW (3M PART #3341-5) WITH $\varnothing .116$ [2.95] MOUNTING HOLE. FOR RIGHT ANGLE VERSION ONLY: #2-56 BOLT AND NUT (3M PART #3341-6) WITH $\varnothing .106$ [2.69] MOUNTING HOLE MAY BE USED.
5. THE RECOMMENDED PCB HOLE SIZE FOR THE KINKED TAIL POSITIONS ON THE .112 SOLDER TAIL CONNECTOR IS $\varnothing .035 \pm .002$. (SEE K2 VERSION).

DESIGN REFERENCE		NEXT ASSEMBLY		REV.	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ACROSS CODES				BPM	CASTIGLIONE	DATE	AUG 05, 2014	MFG	DATE
				CHKD		DATE		APPRV.	R. SCHERER
								DATE	SEP 05, 2014
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2015					
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DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED							
SCALE $\frac{2}{1}$									
		INCHES		TITLE HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA					
THIRD ANGLE PROJECTION		MILLIMETERS							
INTERPRET PER ASME Y14.5 - 2009									
MAX SURFACE ROUGHNESS ☒ MAX SURFACES ☐ MARKED ONLY		.00 ± .01 .000 ± .005 .0000 ±		CAGE NUMBER D 78-5100-0771-5					
		.0 ± .3 .00 ± .13 .000 ±							
		.0 ± .00 ± .000 ±							
		ANGLE		MODEL	3000 SERIES		DET.	STS	YES ☐ NO ☒
								SHT	1 OF 4

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3M™ THREE-WALL HEADER, 3000 SERIES

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



TABLE 1							
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	PIN QTY.
10	3793	1.26 [32.1]	1.105 [28.04]	.865 [21.97]	.71 [18.0]	BC	10
14	3314	1.46 [37.2]	1.305 [33.12]	1.065 [27.05]	.91 [23.1]	BC	14
16	3408	1.56 [39.7]	1.405 [35.66]	1.165 [29.59]	1.01 [25.6]	ABC	16
20	3428	1.76 [44.8]	1.604 [40.74]	1.365 [34.67]	1.21 [30.7]	ABC	20
26	3429	2.06 [52.4]	1.905 [48.36]	1.665 [42.29]	1.51 [38.3]	ABC	26
34	3431	2.46 [62.6]	2.305 [58.52]	2.065 [52.45]	1.91 [48.5]	ABC	34
40	3432	2.76 [70.2]	2.605 [66.14]	2.365 [60.07]	2.21 [56.1]	ABC	40
50	3433	3.26 [82.9]	3.105 [78.84]	2.865 [72.77]	2.71 [68.8]	ABC	50
60	3372	3.76 [95.6]	3.605 [91.54]	3.365 [85.47]	3.21 [81.5]	ABC	60
64	3764	3.96 [100.7]	3.805 [96.62]	3.565 [90.55]	3.41 [86.6]	ABC	64

TABLE 2						
3M PART NUMBER SUFFIX	CONTACT TAIL	DIM. "E"	PIN CROSS SECTION			DIM. "G"
-1XX2 -2XX2	.062 [1.57] THICK PC BOARD	.112 [2.84]	DIM. "F" .0245+/- .0005 [.622]	DIAGONALS .028+/- .001 [.71]	CORNER RADIUS .0075 REF. [.191]	.035+/- .003 [.89] SEE NOTE 5
-1X03 -2X03	.094 [2.39] TO .125 [3.18] THICK PC BOARD	.155 [3.94]	.0245+/- .0005 [.622]	.028+/- .001 [.71]	.0075 REF. [.191]	.035+/- .003 [.89]



DESIGN REFERENCE
NEXT ASSEMBLY

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MAX SURFACE ROUGHNESS
LISTED SURFACES
MARKED ONLY

INTERCONNECT SOLUTIONS

SCALE 4/1

INTERPRET PER ASME Y14.5 - 2009

TOLERANCES EXCEPT AS NOTED

INCHES
0 ± .01
.000 ± .005
.0000 ±

MILLIMETERS
0 ± .3
.00 ± .13
.000 ±

ANGLES

REVISIONS

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
1	ECO	AUG 05, 2014		

3M

HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA

CAGE NUMBER
DRAWING NO.
REV.

MODEL
3000 SERIES

DET
LISTS

YES
NO

SHT 2 OF 4

3M™ THREE-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



RECOMMENDED MOUNTING HOLE PATTERN
(STRAIGHT VERSION)



RECOMMENDED MOUNTING HOLE PATTERN
(RIGHT ANGLE VERSION)

PART CUSTOMIZATION

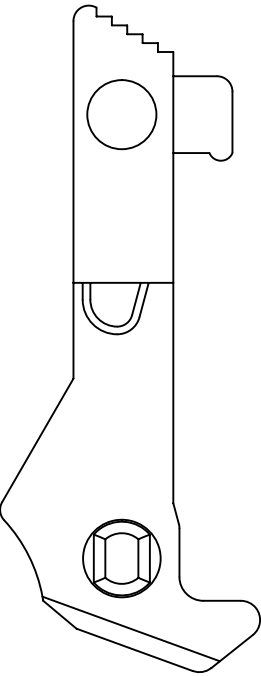
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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.

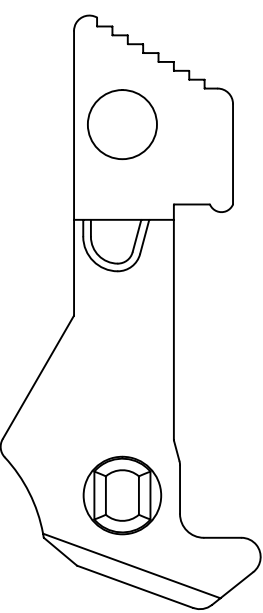
BOTH SNAP-IN AND ROLL PIN LATCHES MAY BE ORDERED SEPARATELY. SNAP-IN AND ROLL PIN STYLE LATCHES ARE DIMENSIONALLY AND FUNCTIONALLY EQUIVALENT. IF ORDERING SNAP-IN OR ROLL PIN STYLE LATCHES SEPARATELY, PLEASE USE THE BELOW CHART.

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

- * SELECTIVE PIN REMOVAL (ATA OR OTHER COMPATABILITY)
- * WIRE WRAP TAILS STYLE

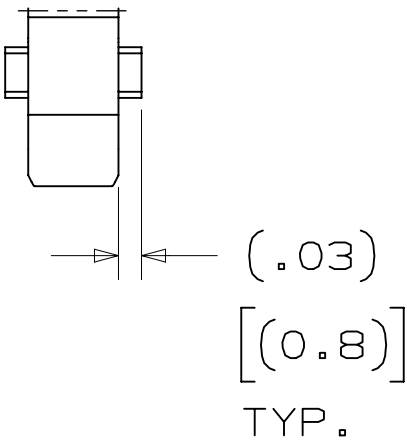


LONG



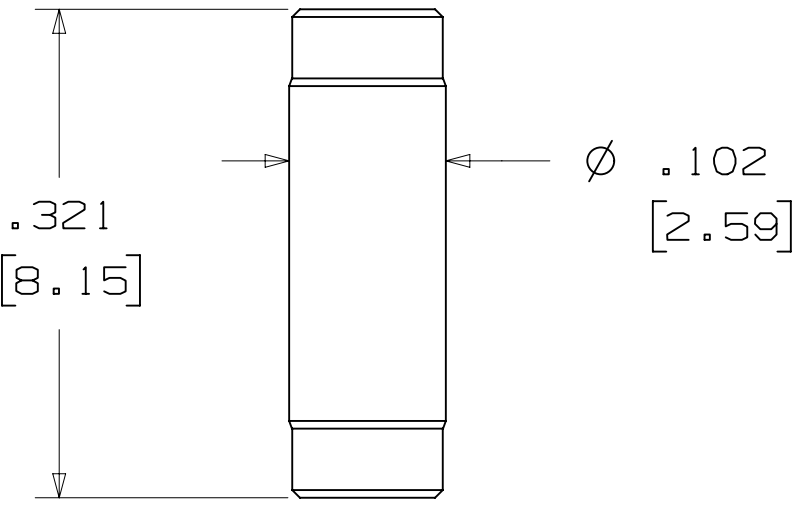
SHORT

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

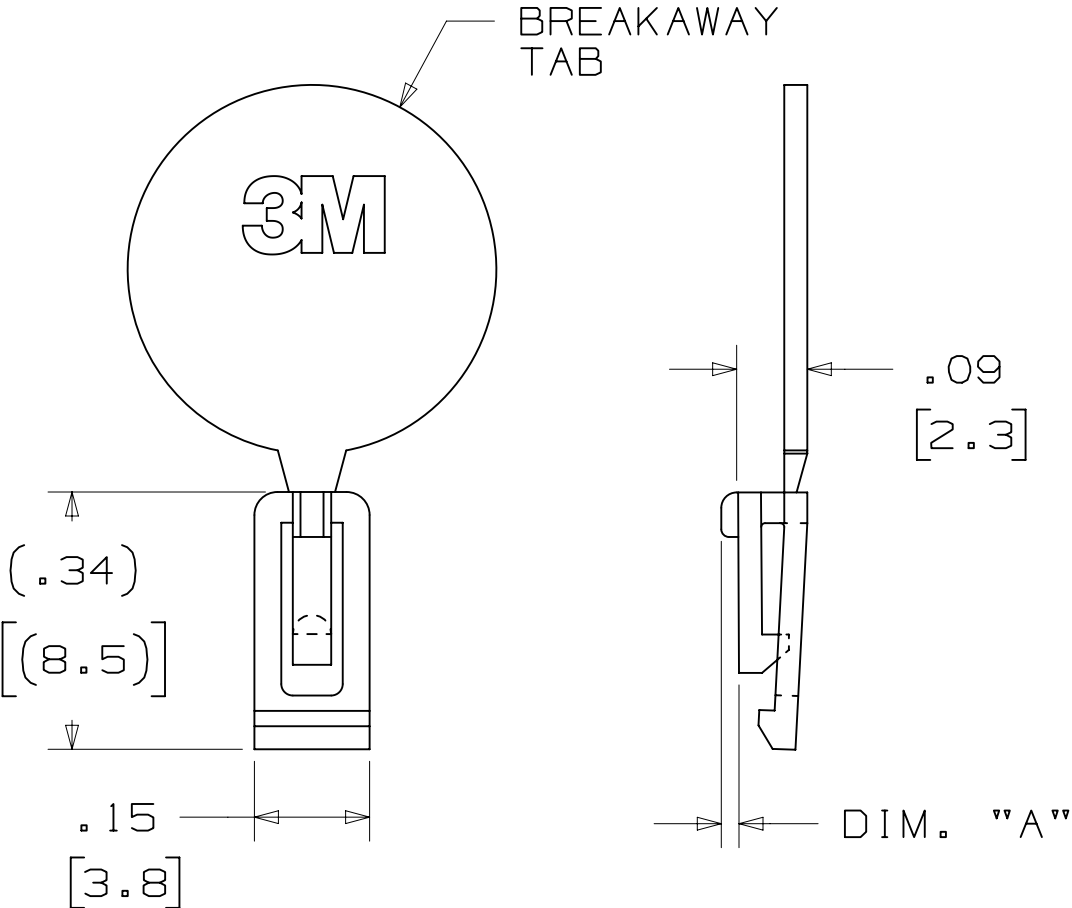
NOTE:
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

(K2) OPTION

2500 & 3000 SERIES SHROUDED HEADER					
TOTAL NO. OF PINS	NO. OF TAILS KINKED	POSITIONS KINKED			
10	4	3	4	7	8
14	4	3	4	11	12
16	4	3	4	13	14
20	4	3	4	17	18
26	4	3	4	23	24
34	4	7	8	27	28
40	4	7	8	33	34
50	4	7	8	43	44
60	4	11	12	49	50
64	4	11	12	53	54

KINKED TAIL DETAIL:
- KINK IS LOCATED .05" BELOW BOTTOM SURFACE OF PLASTIC.
- EXTERNAL RADIUS OF KINK TOWARD PART CENTERLINE.

POLARIZING KEY



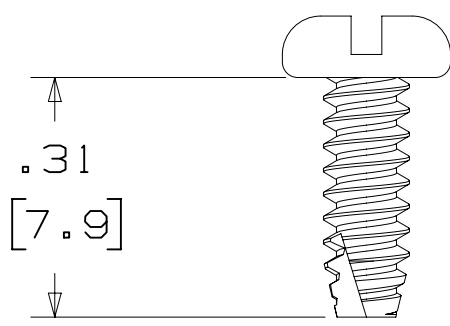
3M PART NO.	MATERIAL	COLOR	DIM. 'A'
N3518	LCP	BLACK	.02

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

DESIGN REFERENCE		NEXT ASSEMBLY		H	60056	MAR 06,2015 REVISE ORDERING NUMBER		JNC	RS
G		56068		AUG 05,2014 REVISED AND REDRAWN		JNC		RS	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DIP		CASTIGLIONE		AUG 05,2014		MFG		DATE	
CHKD		R. SCHERER		SEP 05,2014		DATE		REV.	
DIVISION		Interconnect Solutions		EMSD		3M Center		St. Paul, MN 55144	
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THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		INCHES .00 ±.01 .000 ±.0005 .0000 ±		MILLIMETERS 0 ±.3 .00 ±.13 .000 ±		TITLE	
MAX SURFACE ROUGHNESS		SURFACES		MARKED ONLY		CAGE NUMBER		DRAWING NO.	
D		D		D		78-5100-0771-5		H	
MODEL		3000 SERIES		LISTS		YES		NO	
						SHT 3		OF 4	

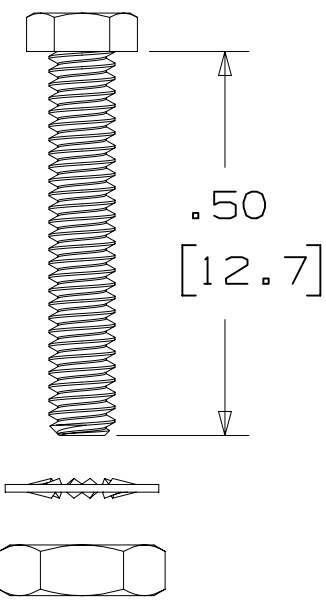
3M™ THREE-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

MOUNTING HARDWARE



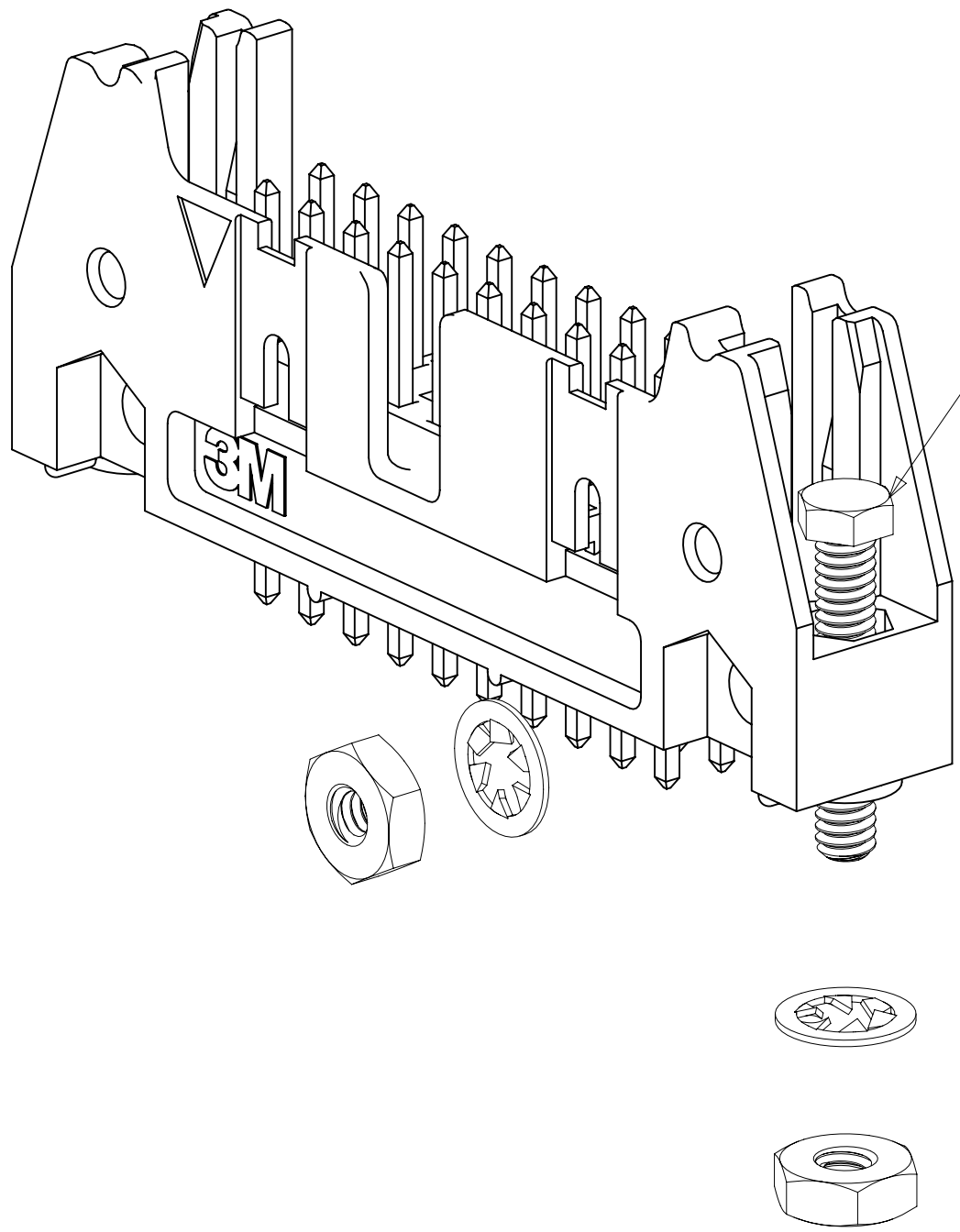
3341-5

(INSTALL FROM BOTTOM OF BOARD)
PANHEAD THREAD CUTTING SCREW:
#4-24 X 5/16"
TYPE: USA STD BT, FEDERAL B6
MATERIAL: STAINLESS STEEL



3341-6

HEX HEAD BOLT, NUT AND WASHER:
BOLT - #2-56 X 1/2"
MATERIAL: STAINLESS STEEL

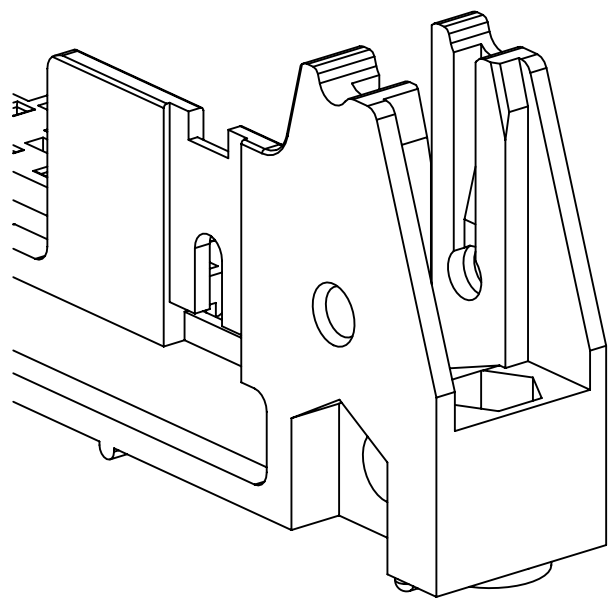


STRAIGHT VERSION INSTALL
(MUST BE INSERTED PRIOR TO
LATCH INSTALL)

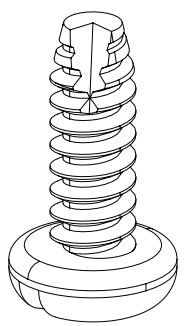
RIGHT ANGLE VERSION INSTALL

3341-6

#2-56 NUT AND BOLT
TORQUE FOR EACH BOLT: 1.25 - 3.125 INCH LBS.



#4-24 TYPE BT SELF THREADING SCREW
WHEN USING LATCHES, MAXIMUM LENGTH
OF SCREW IS .250 INCHES PLUS
THICKNESS OF THE BOARD.
TORQUE FOR EACH SCREW IS 3-5 INCH LBS.



3341-5

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF		DIP		CASTIGLIONE	DATE	AUG 05, 2014	MFG	DATE	
DIVISION		DIVISION CODE		CHKD	DATE	R. SCHERER	DATE	SEP 05, 2014	
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DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		TITLE HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA			
THIRD ANGLE PROJECTION		INCHES 0 ± .00 ±.01 .000 ±.005 .0000 ±		MILLIMETERS 0 ± .0 ±.3 .00 ±.13 .000 ±		CAGE NUMBER D78-5100-0771-5			
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS 12.5 SURFACES ✓ MARKED ONLY		MODEL 3000 SERIES		REV. H			
						DET LISTS YES NO SHT 4 OF 4			