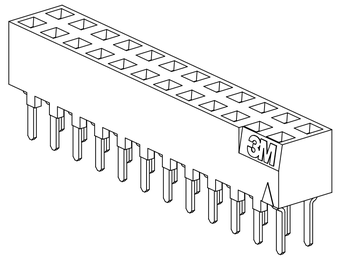
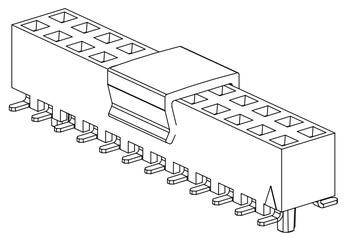
3M™ BOARDMOUNT SOCKET, 1502 SERIES

2.00MM X 2.00MM STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE



STRAIGHT VERSION



SURFACE MOUNT VERSION

[2] PHYSICAL:

INSULATOR:	
MATERIAL:	HIGH TEMP THERMOPLASTIC
CONTACT:	
MATERIAL:	COPPER ALLOY
PLATING:	
UNDER PLATING:	1.27-3.8µm [50-150µ"] NICKEL-OVERALL
WIPING AREA:	.76µm [30µ"] GOLD
SOLDER TAILS:	5.1µm [200µ"] MATTE TIN (RIA E1 & C1 APPLY)
MARKING:	ORIENTATION DELTA AND 3M LOGO (EXCEPT SURFACE MOUNT)

[2] ELECTRICAL:

CURRENT RATING:	1A
VOLTAGE RATING:	$150V_{AC}$ PER EIA-364-20
INSULATION RESISTANCE:	$>1 \times 10^9$ OHm AT $250V_{DC}$
WITHSTANDING VOLTAGE:	$500V_{DC}$ AT SEA LEVEL

[2] ENVIRONMENTAL:

TEMPERATURE RATING:	-55° C TO 105° C
PROCESS RATING:	MAX. 260° C (PER J-STD-020C)
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. TAPE & REEL INCLUDE VACUUM PICK-UP CAP FOR PICK 'n PLACE HANDLING EQUIPMENT.
4. PARTS IN TRAY PACKAGING ARE SUPPLIED WITHOUT VACUUM CAP.
5. POSITIONS PER ROW, SUBTRACT 1, MULTIPLY BY 2MM SPACING.
6. OPTIONAL LOCATOR POSTS: POSITIONS PER ROW, MULTIPLY BY 2MM SPACING, THEN SUBTRACT 4MM. POSTS ARE ONLY AVAILABLE FOR POSITIONS 08 AND GREATER.

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
K	63282	SEP 03,2015 REDRAWN & REMOVED RIGHT ANGLE	JNC	ARM

DESIGN REFERENCE / NEXT ASSEMBLY / ACCESS CODES

DRFT: CASTIGLIONE — DATE: SEP 03,2015 — MFG — DATE

CHKD — DATE — APPVL: a. MATHEWS — DATE: SEP 03,2015

DIVISION

DIVISION CODE: EMSD

DO NOT SCALE DRAWING — SCALE: 6:1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

INCHES: .0 ±.1; .00 ±.01; .000 ±.005; .0000 ±.0002

MILLIMETERS: 0 ±2; .0 ±.3; .00 ±.13; .000 ±.005

ANGLES ±

3M Center, St. Paul, MN 55144

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TITLE: BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20

CAGE NUMBER: 63282 — SIZE: D — DRAWING NO.: 78-5100-0519-8 — REV.: K

MODEL: 1502 — DET. LISTS ☐ YES ☒ NO — SHT 1 OF 4

DIMENSIONS: MM [INCH]
[INCH] FOR REF. ONLY

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

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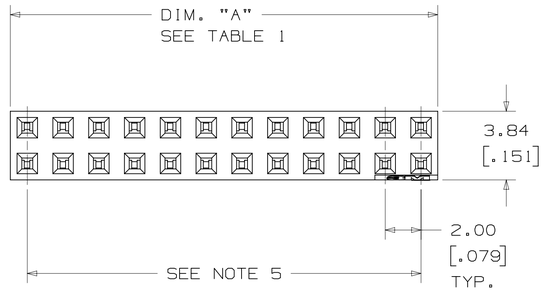
3M™ BOARDMOUNT SOCKET, 1502 SERIES

2.00MM X 2.00MM STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE



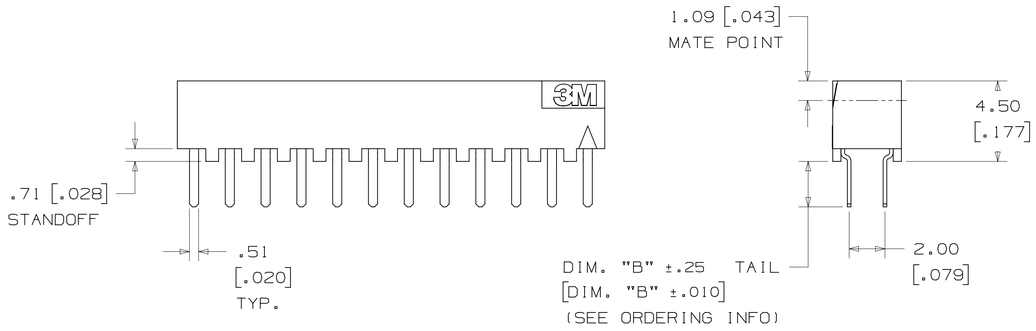
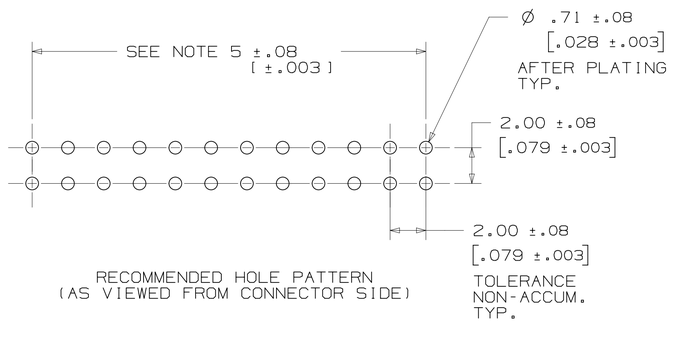


TABLE 1	
CONTACT QTY.	DIM. "A"
04	3.96 [.156]
06	5.87 [.231]
08	7.87 [.310]
10	9.88 [.389]
12	11.86 [.467]
14	13.87 [.546]
16	15.88 [.625]
18	17.88 [.704]
20	19.86 [.782]
22	21.87 [.861]
24	23.88 [.940]
26	25.88 [1.019]
28	27.86 [1.097]
30	29.87 [1.176]
32	31.88 [1.255]
34	33.88 [1.334]
36	35.86 [1.412]
38	37.87 [1.491]
40	39.88 [1.570]
42	41.88 [1.649]
44	43.87 [1.727]
46	45.87 [1.806]
48	47.88 [1.885]
50	49.89 [1.964]
52	51.87 [2.042]
54	53.87 [2.121]
56	55.88 [2.200]
58	57.86 [2.278]
60	59.87 [2.357]



RECOMMENDED HOLE PATTERN
(AS VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION

STRAIGHT

1502XX-600X-RB

CONTACT QTY.: SEE TABLE 1

SOLDER TAIL LENGTH: DIMENSION "B"
1 = 1.4MM (SPECIAL ORDER)
2 = 2.54MM (STANDARD)

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
K	63282	SEP 03,2015 REDRAWN & REMOVED RIGHT ANGLE	JNC	ARM

DESIGN REFERENCE | NEXT ASSEMBLY | ACCESS CODES

DRFT: CASTIGLIONE | DATE: SEP 03,2015 | MFG | DATE

CHKD | DATE | APPVL: a. MATHEWS | DATE: SEP 03,2015

DIVISION | DIVISION CODE: EMSD

DO NOT SCALE DRAWING | SCALE: 6/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

INCHES: .0 ±.1 | .00 ±.01 | .000 ±.005 | .0000 ±.0002

MILLIMETERS: 0 ±2 | .0 ±.3 | .00 ±.13 | .000 ±.005

ANGLES ±

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TITLE: BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0519-8 | REV.: K

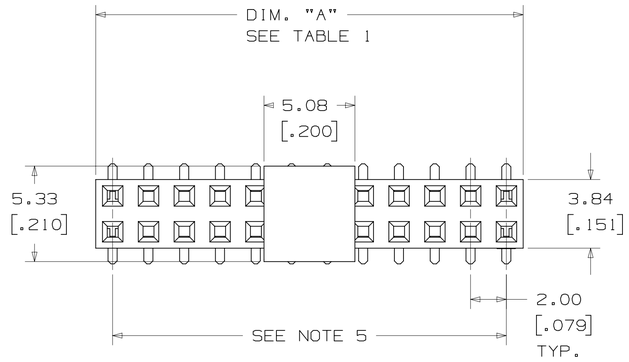
MODEL: 1502 | DET. LISTS ☐ YES ☒ NO | SHT 2 OF 4

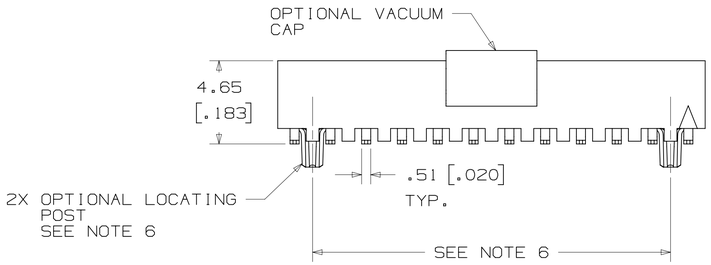
78-5100-0519-8 DRAWING NUMBER | K REVISION

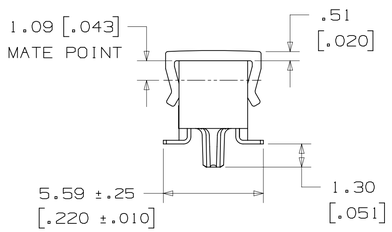
Imaged: K.3 Central Standard Time 12/7/2017 UTC offset

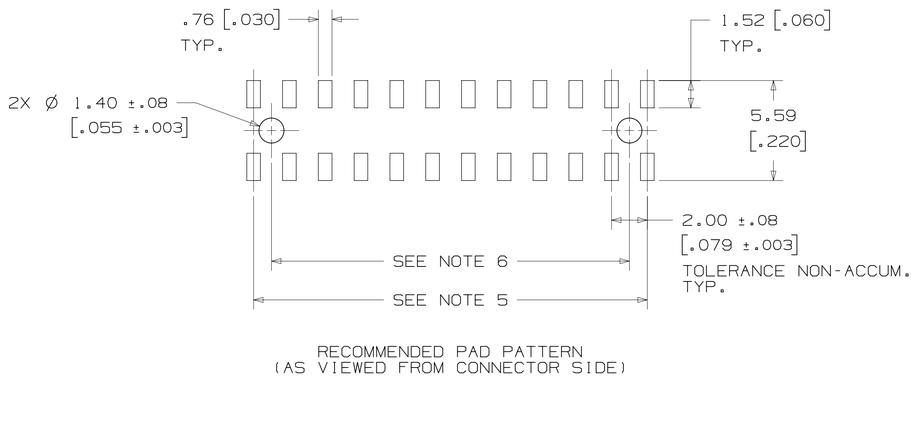
3M™ BOARDMOUNT SOCKET, 1502 SERIES

2.00MM X 2.00MM STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE









RECOMMENDED PAD PATTERN
(AS VIEWED FROM CONNECTOR SIDE)

TABLE 1			
CONTACT QTY.	DIM. "A"	TAPE WIDTH	ORDER CODE
04	3.96 [.156]	N/A	N/A
06	5.87 [.231]	N/A	N/A
08	7.87 [.310]	24 MM	WB
10	9.88 [.389]	24 MM	WB
12	11.86 [.467]	24 MM	WB
14	13.87 [.546]	24 MM	WB
16	15.88 [.625]	24 MM	WB
18	17.88 [.704]	44 MM	WD
20	19.86 [.782]	44 MM	WD
22	21.87 [.861]	44 MM	WD
24	23.88 [.940]	44 MM	WD
26	25.88 [1.019]	44 MM	WD
28	27.86 [1.097]	44 MM	WD
30	29.87 [1.176]	44 MM	WD
32	31.88 [1.255]	56 MM	WE
34	33.88 [1.334]	56 MM	WE
36	35.86 [1.412]	56 MM	WE
38	37.87 [1.491]	56 MM	WE
40	39.88 [1.570]	56 MM	WE
42	41.88 [1.649]	56 MM	WE
44	43.87 [1.727]	72 MM	WF
46	45.87 [1.806]	72 MM	WF
48	47.88 [1.885]	72 MM	WF
50	49.89 [1.964]	72 MM	WF
52	51.87 [2.042]	72 MM	WF
54	53.87 [2.121]	72 MM	WF
56	55.88 [2.200]	72 MM	WF
58	57.86 [2.278]	88 MM	WG
60	59.87 [2.357]	88 MM	WG

ORDERING INFORMATION
SURFACE MOUNT
1502XX-20X0-RB-XX

CONTACT QTY.:
SEE TABLE 1

BOARD LOCATION POST:
0 = NONE (STANDARD)
2 = WITH BOARD LOCATION POSTS
(SPECIAL ORDER)

PACKAGING STYLE:
BLANK = TRAY PACKAGING
WX = TAPE & REEL PACKAGING
(SEE TABLE 1 FOR ORDERING CODE)

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
K	63282	SEP 03,2015 REDRAWN & REMOVED RIGHT ANGLE	JNC	ARM

DESIGN REFERENCE | NEXT ASSEMBLY | ACCESS CODES

DRFT: CASTIGLIONE DATE: SEP 03,2015 | MFG | DATE
CHKD | DATE | APPVL: Q. MATHEWS DATE: SEP 03,2015

DIVISION | DIVISION CODE: EMSD

DO NOT SCALE DRAWING | SCALE: 6/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

INCHES
.0 ±.1
.00 ±.01
.000 ±.005
.0000 ±.0002

MILLIMETERS
0 ±2
.0 ±.3
.00 ±.13
.000 ±.005

ANGLES ±

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TITLE: BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-0519-8 | REV.: K

MODEL: 1502 | DET. LISTS ☐ YES ☒ NO | SHT 3 OF 4

78-5100-0519-8 (DRAWING NUMBER) K (REVISION)

Imaged: K.3 Central Standard Time 12/7/2017 UTC Offset

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REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
K	63282	SEP 03,2015 REDRAWN & REMOVED RIGHT ANGLE	JNC	ARM

DESIGN REFERENCE | NEXT ASSEMBLY

ACCESS CODES

DRFT: CASTIGLIONE | DATE: SEP 03,2015 | MFG | DATE

CHKD | DATE | APPVL: G. MATHEWS | DATE: SEP 03,2015

DIVISION

DIVISION CODE: EMSD

DO NOT SCALE DRAWING | SCALE 1/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

INCHES
.0 : .1
.00 : .01
.000 : .005
.0000 : .0002

MILLIMETERS
0 : 2
.0 : .3
.00 : .13
.000 : .005

ANGLES ±

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TITLE
BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-0519-8 | REV. K

MODEL 1502 | DET LISTS ☐ YES ☒ NO | SHT 4 OF 4

78-5100-0519-8 K
DRAWING NUMBER REVISION

Imaged: K.3 Central Standard Time12/7/2017UTC Offset

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

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- 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;
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- 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.);

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FORSTAR®

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Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А