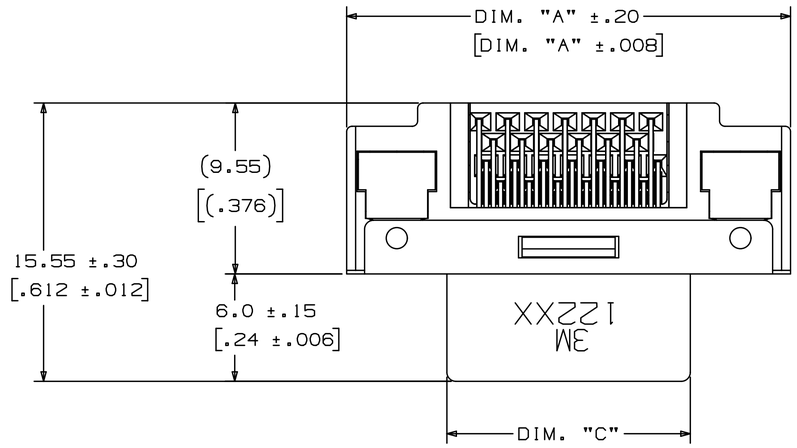
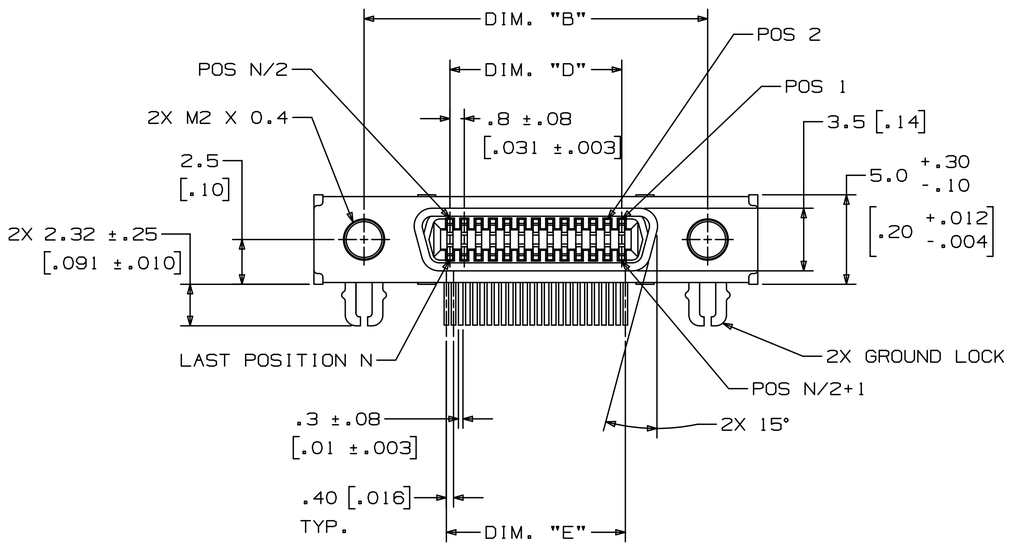
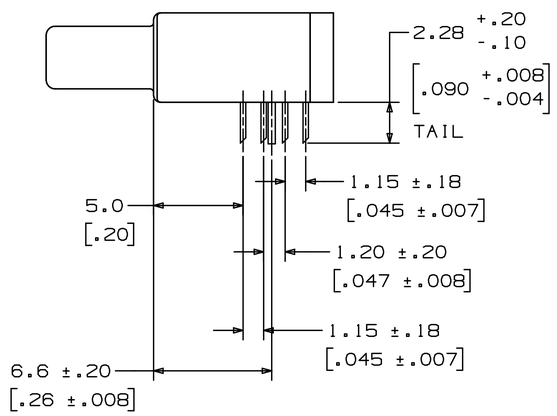
3M™ Shrunk Delta Ribbon (SDR) Connectors, 122 Series

.80 mm Through-Hole, Right Angle Receptacle, Shielded







POSITION	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"
14	20.0 [.79]	14.4 [.57]	8.8 [.35]	4.8 [.19]	5.2 [.20]
26	24.8 [.98]	19.2 [.76]	13.6 [.54]	9.6 [.38]	10.0 [.39]
50	34.4 [1.35]	28.8 [1.13]	23.2 [.91]	19.2 [.76]	19.6 [.77]

CONNECTOR DIMENSION TABLE
TABLE 1

NOTES

1. MATERIAL:
   INSULATION: HIGH TEMPERATURE NYLON
   COLOR: BLACK, UL94V-0

   CONTACT: COPPER ALLOY
   PLATING:
   UNDERPLATE: 2µm [80µ"] NICKEL
   WIPING AREA: .76µm [30µ"] GOLD
   TERMINATION AREA: GOLD FLASH OVER NICKEL

   SHROUD & LATCH HOOK: STEEL
   PLATING: NICKEL

   GROUND LOCK: COPPER ALLOY
   PLATING: SEMI-BRIGHT TIN OVER NICKEL

   LOCK SCREW: STEEL
   PLATING: NICKEL

   ALIGNMENT PLATE: PPS
   COLOR: BLACK, UL94V-0
2. MARKING: 3M LOGO AND PART NUMBER.
3. ELECTRICAL:
   CURRENT RATING: 0.5 A
   INSULATION RESISTANCE: 500 MΩ MIN AT 250 V_{DC}
   WITHSTANDING VOLTAGE: 350 V_{AC} FOR 1 MINUTE
4. ENVIRONMENTAL:
   TEMPERATURE RATING:
   -40°C TO +70°C
   PROCESS RATING:
   REFLOW: PREHEAT 150° TO 180°C,
   90 TO 120 SECONDS
   SOLDERING: OVER 220°C,
   30 TO 60 SECONDS, PEAK TEMPERATURE
   IS 250°C MAX.
   SOLDER IRON: 380°C MAX, 3 SECONDS MAX.
   WAVE SOLDERING: 260°C, 10 SECONDS, 2 TIMES
   OR 263°C, 5 SECONDS, 2 TIMES.
   * PRE-HEAT CONDITION:
   TEMP OF COMPONENTS: 100°C MAX.
   DURATION: 60 SECONDS MAX.
5. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
6. FOR VARIOUS PANEL THICKNESS JACKSOCKETS REFER TO TS-0142.
7. SEE REGULATORY INFORMATION APPENDIX (RIA) IN THE "RoHS COMPLIANCE" SECTION OF WWW.3MCONNECTOR.COM FOR COMPLIANCE INFORMATION.

DRAWING NUMBER 78-5100-2124-5 REVISION E

DIMENSIONS ARE IN MM.
SECONDARY ARE IN [INCHES]
AND ARE FOR REFERENCE ONLY

UL FILE NO: E68080

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
E	30752	JAN 05,2011 REVISED AND REDRAWN	JNC	SC

DESIGN REFERENCE | NEXT ASSEMBLY

DRFT: CASTIGLIONE DATE: JAN 05,2011 MFG DATE
CHKD DATE APPVL: D. CRONCH DATE: JAN 12,2011

DIVISION: Interconnect Solutions
DIVISION CODE: ISO
DO NOT SCALE DRAWING | SCALE: 6 / 1
TOLERANCES EXCEPT AS NOTED:
INCHES: .0 ± / .00 ± .006 / .000 ± .008 / .0000 ± .005
MILLIMETERS: 0 ± / .0 ± .15 / .00 ± .15 / .000 ± .13
ANGLES ±
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 1994
MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

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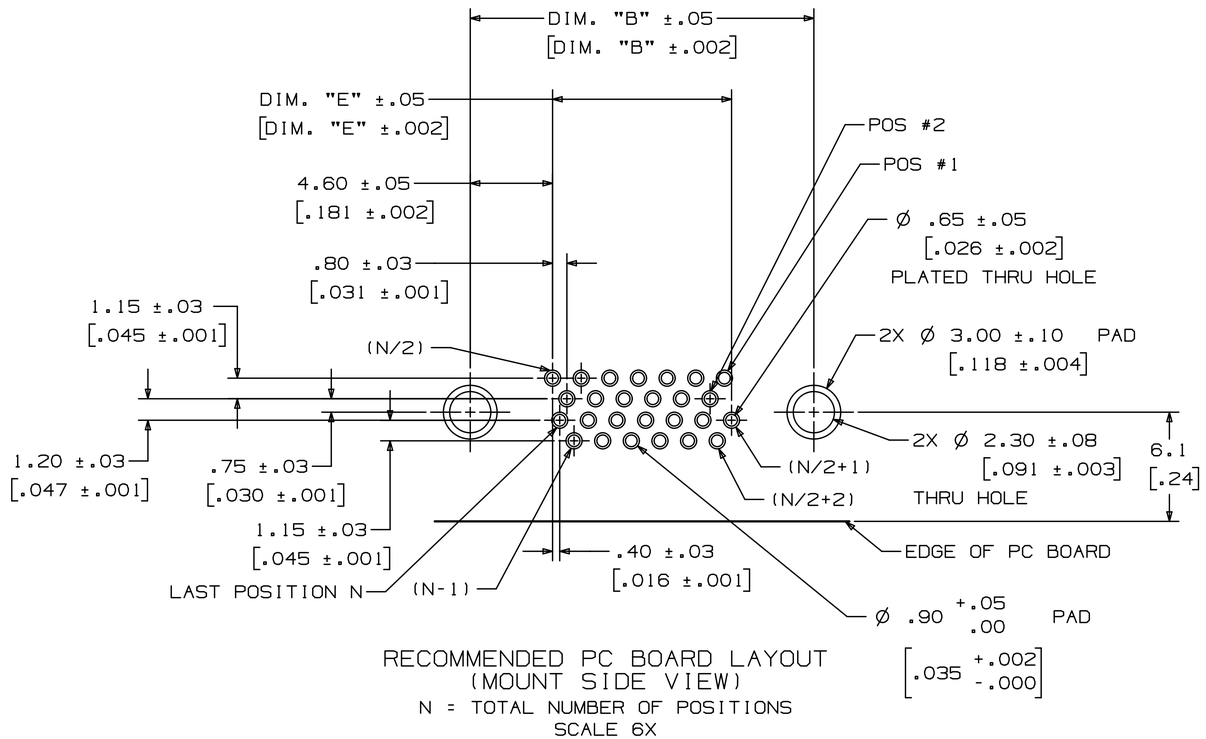
3M Center, St. Paul, MN 55144

TITLE: 3M SHRUNK DELTA RIBBON (SDR) CONN. 122XX-51X0-00FR

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2124-5 | REV.: E
MODEL: 122XX-51X0-00 | DET. LISTS ☐ YES ☒ NO | SHT 1 OF 2

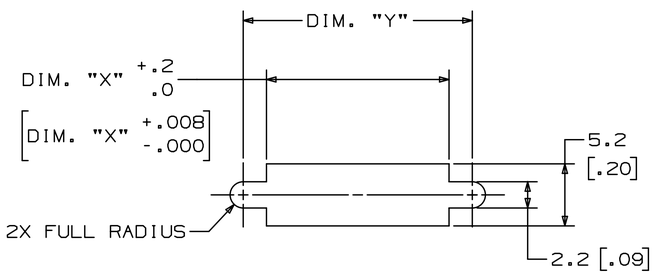
3M™ Shrunk Delta Ribbon (SDR) Connectors, 122 Series

.80 mm Through-Hole, Right Angle Receptacle, Shielded



RECOMMENDED PC BOARD LAYOUT
(MOUNT SIDE VIEW)

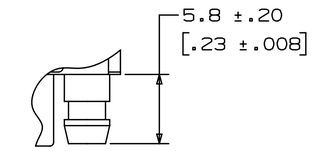
N = TOTAL NUMBER OF POSITIONS
SCALE 6X



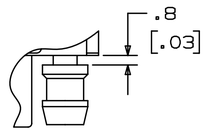
RECOMMENDED PANEL CUT-OUT
(MAXIMUM PANEL THICKNESS 1.2MM)

POSITION	DIM. "X"	DIM. "Y"
14	10.5 [.41]	14.4 [.57]
26	15.3 [.60]	19.2 [.76]
50	24.9 [.98]	28.8 [1.13]

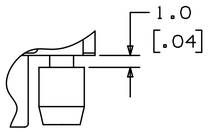
RECOMMENDED PANEL CUT-OUT DIMENSION TABLE
TABLE 2



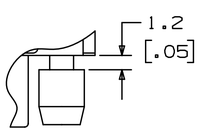
12600-S-00
SEE NOTE



12600-S-08



12600-S-10



12600-S-12

JACKSOCKET
M2 X 0.4

NOTE: JACKSOCKET 12600-S-00 COMES FACTORY INSTALLED IN CONNECTOR 122XX-5150-00FR. IT IS FIXED WITH THREAD LOCKING ADHESIVE AND CANNOT BE REMOVED.

PANEL THICKNESS	CONNECTOR	JACKSOCKET
NO PANEL	122XX-5150-00FR	FACTORY INSTALLED (SEE NOTE)
0.8±0.1MM	122XX-5100-00FR	12600-S-08 (ORDER SEPARATELY)
1.0±0.1MM	122XX-5100-00FR	12600-S-10 (ORDER SEPARATELY)
1.2±0.1MM	122XX-5100-00FR	12600-S-12 (ORDER SEPARATELY)

SELECTION TABLE FOR PANEL MOUNTING
TABLE 3

ORDERING INFORMATION:

122XX-51X0-00FR

- 122XX: CONTACT QUANTITY (SEE TABLE 1)
- 51X0: SCREW LOCK OPTION: (SEE TABLE 3)
  - 0=NONE (RIA E1 & C1 APPLY)
  - 5=WITH 12600-S-00 NON-REMOVABLE SCREW LOCK (RIA E5 & C3 APPLY)

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
E	30752	JAN 05,2011 REVISED AND REDRAWN	JNC	SC

DESIGN REFERENCE | NEXT ASSEMBLY | DISTRIBUTION CODES

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CHKD | DATE | APPVL: D. CRONCH, DATE: JAN 12,2011

DIVISION: Interconnect Solutions | DIVISION CODE: ISD

DO NOT SCALE DRAWING | SCALE 4 1

TOLERANCES EXCEPT AS NOTED

INCHES: .0 ± | .00 ± .008 | .000 ± .008 | .0000 ± .005

MILLIMETERS: 0 ± | .0 ± .15 | .00 ± .15 | .000 ± .13

ANGLES ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

3M Center, St. Paul, MN 55144

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TITLE: 3M SHRUNK DELTA RIBBON (SDR) CONN. 122XX-51X0-00FR

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2124-5 | REV.: E

MODEL: 122XX-51X0-00 | DET. LISTS ☐ YES ☒ NO | SHT 2 OF 2

78-5100-2124-5 | E REVISION

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