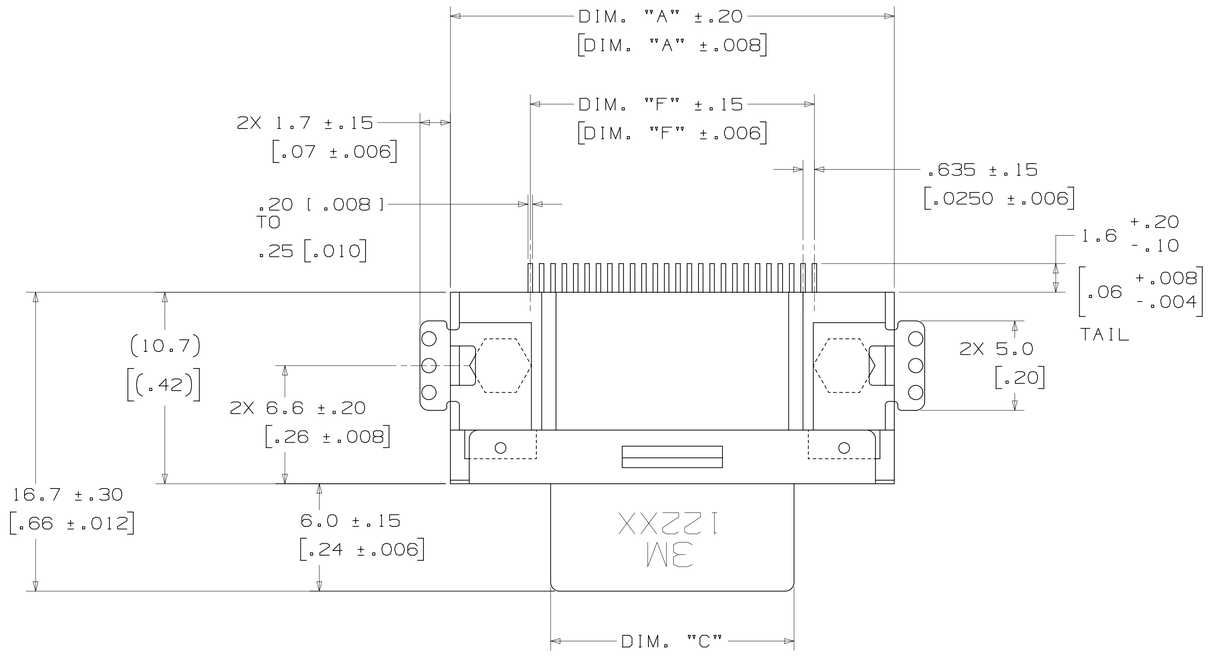
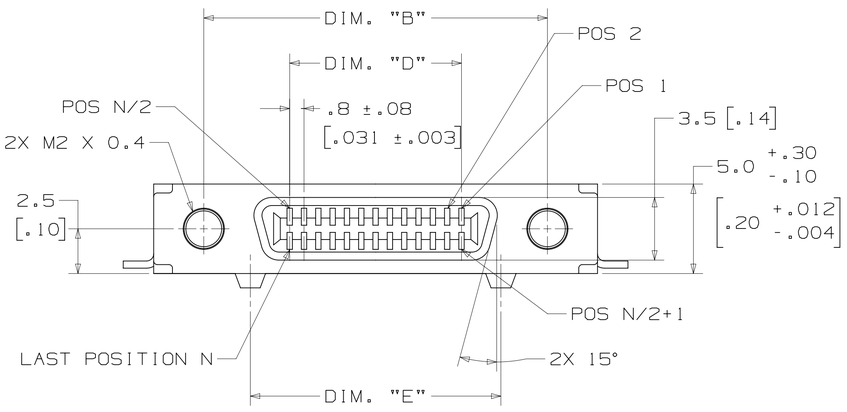
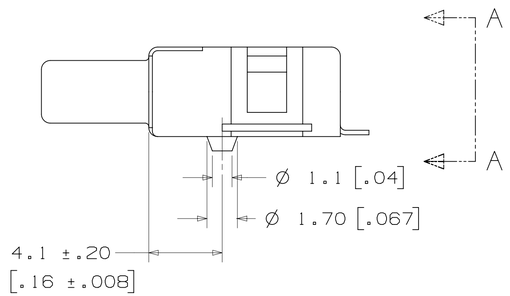
# 3M™ Shrunk Delta Ribbon (SDR) Connectors, 122 Series

.80 mm Surface Mount, Right Angle Receptacle, Shielded




| POSITION | DIM. "A" | DIM. "B" | DIM. "C" | DIM. "D" | DIM. "E" | DIM. "F" | DIM. "G" |
|---|---|---|---|---|---|---|---|
| 14 | 20.0 [.79] | 14.4 [.57] | 8.8 [.35] | 4.8 [.19] | 9.2 [.36] | 8.255 [.3250] | 19.0 [.75] |
| 26 | 24.8 [.98] | 19.2 [.76] | 13.6 [.54] | 9.6 [.38] | 14.0 [.55] | 15.875 [.6250] | 23.8 [.94] |

CONNECTOR DIMENSION TABLE
TABLE 1

UL FILE NO: E68080

NOTES

1. MATERIAL:
   INSULATION: 14 PIN: PPS, 26 PIN: LCP
   COLOR: BLACK, UL94V-0

   CONTACT: COPPER ALLOY
   PLATING:
   SEE ORDERING INFO SHEET 2

   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

   EARTH PLATE: COPPER ALLOY
   PLATING: TIN

   HEX NUT: BRASS

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.
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.

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

| REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
|---|---|---|---|---|
| F | 40541 | MAY 01,2012 ADD 'PL' PLATING SPEC | ARM | DFC |
| E | 30752 | JAN 05,2011 REVISED AND REDRAWN | JNC | SC |

DESIGN REFERENCE | NEXT ASSEMBLY

DRFT: CASTIGLIONE — DATE: JAN 07,2011 — MFG — DATE
CHKD — DATE — APPVL: D. CRONCH — DATE: MAR 30,2011

DIVISION: Interconnect Solutions — DIVISION CODE: ISD

DO NOT SCALE DRAWING — SCALE 6/1

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-82X0-00XX

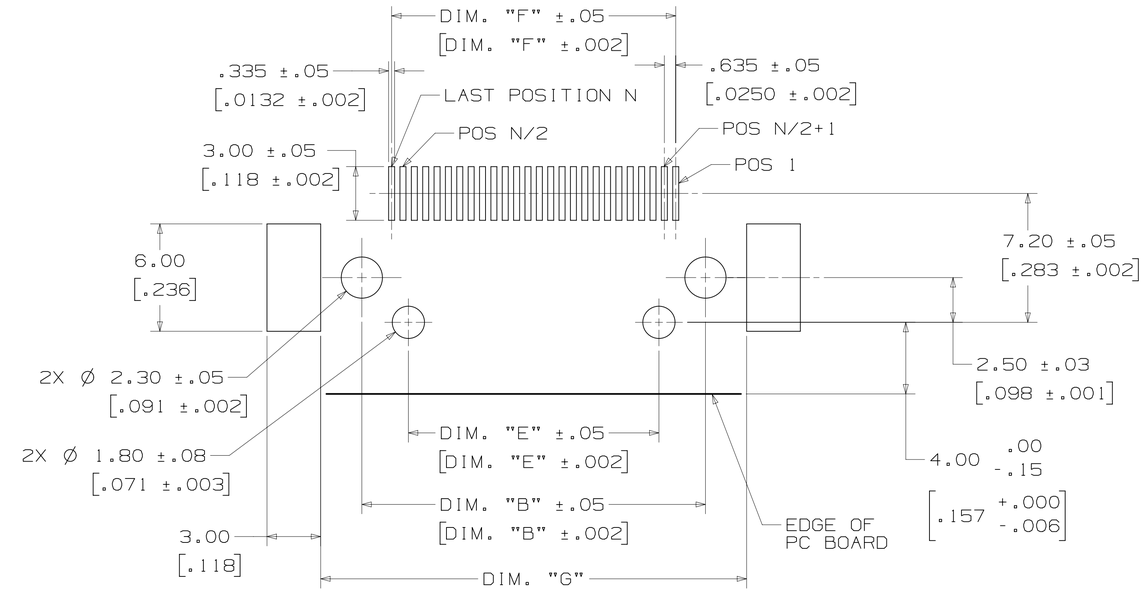
CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2125-2 | REV.: F

MODEL: 12200 — DET LISTS ☐ YES ☒ NO — SHT 1 OF 2

78-5100-2125-2 (DRAWING NUMBER) F (REVISION)

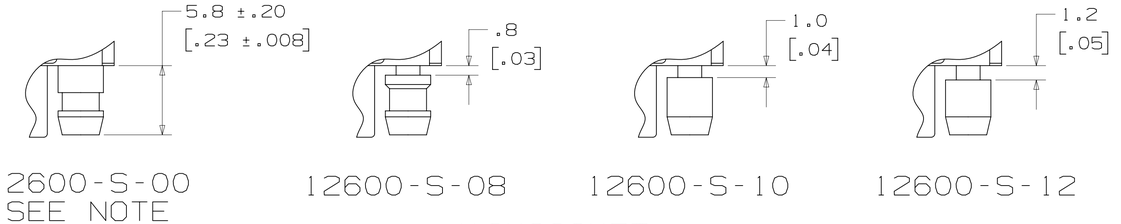
# 3M™ Shrunk Delta Ribbon (SDR) Connectors, 122 Series

.80 mm Surface Mount, Right Angle Receptacle, Shielded




RECOMMENDED PC BOARD LAYOUT
(MOUNT SIDE VIEW)

N = TOTAL NUMBER OF POSITIONS
SCALE 6X



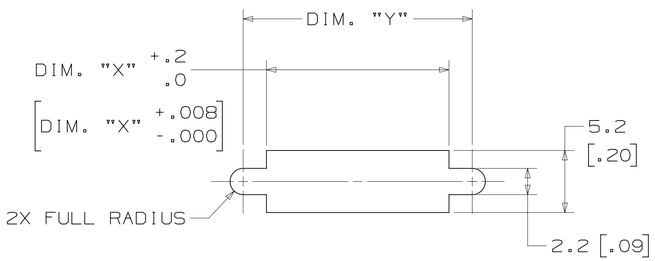

12600-S-00 SEE NOTE | 12600-S-08 | 12600-S-10 | 12600-S-12

JACKSOCKET
M2 X 0.4

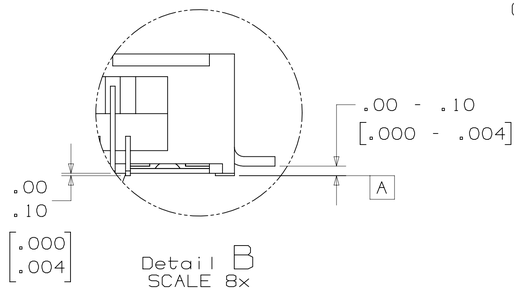
NOTE: JACKSOCKET 12600-S-00 COMES FACTORY INSTALLED IN CONNECTOR 122XX-8250-00FR. IT IS FIXED WITH THREAD LOCKING ADHESIVE AND CANNOT BE REMOVED.

| PANEL THICKNESS | CONNECTOR | JACKSOCKET |
|---|---|---|
| NO PANEL | 122XX-8250-00XX | FACTORY INSTALLED (SEE NOTE) |
| 0.8±0.1MM | 122XX-8200-00XX | 12600-S-08 (ORDER SEPARATELY) |
| 1.0±0.1MM | 122XX-8200-00XX | 12600-S-10 (ORDER SEPARATELY) |
| 1.2±0.1MM | 122XX-8200-00XX | 12600-S-12 (ORDER SEPARATELY) |

SELECTION TABLE FOR PANEL MOUNTING
TABLE 3




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




Detail B
SCALE 8x

| POSITION | DIM. "X" | DIM. "Y" |
|---|---|---|
| 14 | 10.5 [ .41 ] | 14.4 [ .57 ] |
| 26 | 15.3 [ .60 ] | 19.2 [ .76 ] |

RECOMMENDED PANEL CUT-OUT DIMENSION TABLE
TABLE 2

# ORDERING INFORMATION:

## 122XX-82X0-00XX

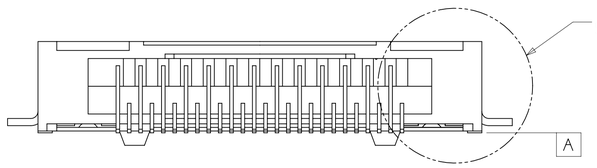
CONTACT QUANTITY
(SEE TABLE 1)

PLATING OPTION:

FR = 50-100μ" NICKEL UNDERPLATE
30μ" GOLD MIN. WIPE AREA
FLASH GOLD TERM AREA (TAIL)

PL = 50-100μ" NICKEL UNDERPLATE
8μ" GOLD MIN. WIPE AREA
FLASH GOLD TERM AREA (TAIL)

SCREW LOCK OPTION: (SEE TABLE 3)
0=NONE
(RIA E1 & C1 APPLY)
5=WITH12600-S-00 NON-REMOVABLE SCREW LOCK
(RIA E5 & C3 APPLY)




VIEW A-A
SCALE 6X

THE DIMENSION OF PIN TAILS LOWER SURFACE TO DATUM "A" SURFACE: 0.00 TO 0.10 [ .000 TO .004 ].
NOTE: THE CONNECTOR SHOULD BE ON FLAT FIXTURE SURFACE WHEN THE DIMENSIONS ARE MEASURED.

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|---|---|---|---|---|
| F | 40541 | MAY 01,2012 ADD 'PL' PLATING SPEC | ARM | DFC |
| E | 30752 | JAN 05,2011 REVISED AND REDRAWN | JNC | SC |

DRFT: CASTIGLIONE — DATE: JAN 07,2011 — MFG — DATE
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DESIGN REFERENCE | NEXT ASSEMBLY
DISTRIBUTION CODES
DIVISION: Interconnect Solutions
DIVISION CODE: ISD
DO NOT SCALE DRAWING | SCALE 4/1
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 1994
MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☐ MARKED ONLY
TOLERANCES EXCEPT AS NOTED
INCHES: .0 ± | .00 ± .008 | .000 ± .006 | .0000 ± .005
MILLIMETERS: 0 ± | .0 ± .15 | .00 ± .15 | .000 ± .13
ANGLES ±

3M Center St. Paul, MN 55144
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CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2125-2 | REV. F
MODEL 12200 | DET LISTS ☐ YES ☒ NO | SHT 2 OF 2

78-5100-2125-2 F