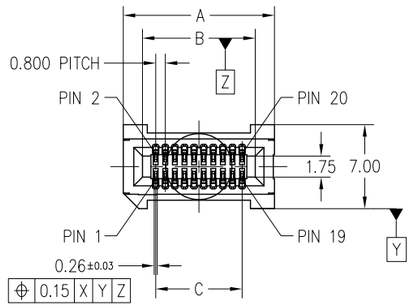
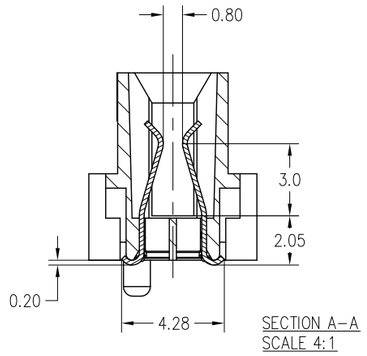
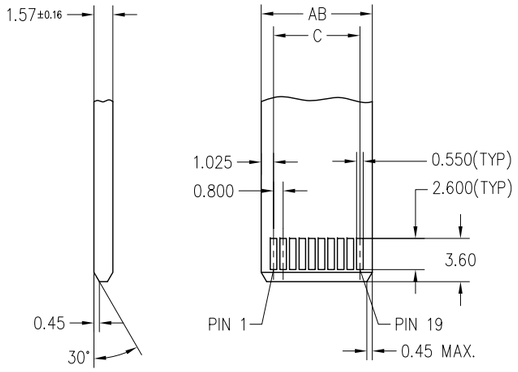
3M™ HIGH SPEED CARD-EDGE CONNECTOR, SPD08 SERIES

FIG. 1
FOR POSITIONS 020, 040, 060,
W/O LATCH TYPE
(SHOWN: SPD08-020-XX-TR)

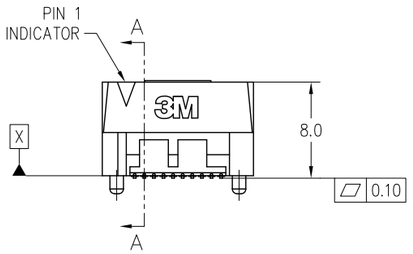


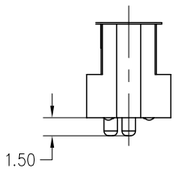


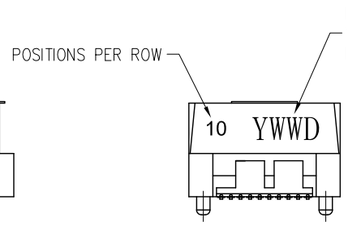
SECTION A-A
SCALE 4:1

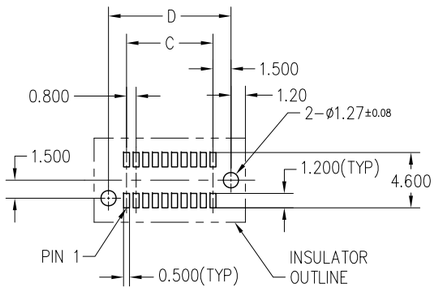


RECOMMENDED MATING CARD LAYOUT

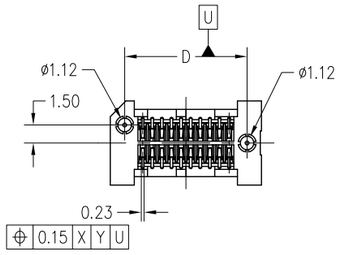


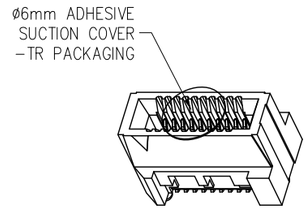






RECOMMENDED PCB LAYOUT





POSITIONS	DIMENSIONS				
	A	B	C	D	AB
20	12.60	9.40	7.200	10.20	9.25
40	20.60	17.40	15.200	18.20	17.25
60	28.60	25.40	23.200	26.20	25.25

NOTES:
1. MATERIAL:
   HOUSING: GLASS FILLED LCP, BLACK, UL 94V-0
   LATCH: GLASS FILLED LCP, BEIGE, UL 94V-0
   CONTACT: COPPER ALLOY
   SOLDER TAB: COPPER ALLOY
2. FINISH:
   GOLD PLATING ON CONTACT WIPING AREA,
   3~5um MATTE TIN ON SOLDER TAILS,
   1.27um NICKEL UNDER PLATED.
3. RATING:
   CURRENT: 3.0A, SINGLE CONTACT POWERED,
   1.2A, ALL CONTACTS POWERED.
   VOLTAGE: 250V AC
   TEMPERATURE: -55 TO +125°C
   PROCESS TEMP: 260°C MAX. (PROFILE PER J-STD-020C)
   MOISTURE SENSITIVITY LEVEL: 1 (PER J-STD-020C)
   CONTACT RESISTANCE: 20mΩ MAX.
   CHARACTERISTIC IMPEDANCE: FOR USE WITH 100Ω
   OR 85Ω DIFFERENTIAL-PAIR SYSTEMS, OR 50Ω
   SINGLE-ENDED SYSTEM.
   BANDWIDTH: 15Gbps (RATED @ -3dB INSERTION LOSS,
   30mm STACK HEIGHT BOARD TO BOARD APPLICATION)
4. ROHS COMPLIANT.
5. RECOMMENDED PACKAGING:
   W/O LATCH TYPE: 20~160POS., T&R; 180~200POS., TRAY
   WITH LATCH TYPE: 20~120POS., T&R; 140~200POS., TRAY
6. PART NUMBERING INFORMATION:

SPD08-XXX-X-XX-XX

NO. OF POSITIONS
020, 040, 060 (SEE FIG. 1, 3)
050, 080, 100, 120, 140, 160,
180, 200 (SEE FIG. 2, 4)

LATCHING OPTION
BLANK= W/O LATCH (SEE FIG. 1, 2)
L = WITH LATCH (SEE FIG. 3, 4)

PACKAGING OPTION
BLANK= TRAY
TR= TAPE & REEL

PLATING OPTION
RB= 0.76um MIN. GOLD
RC= 0.38um MIN. GOLD
RA= 0.25um MIN. GOLD

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
B		16 JUL 2013	KDLIU	KDLIU
A		11 MAY 2011	KDLIU	KDLIU

DESIGN REFERENCE | NEXT ASSEMBLY

DISTRIBUTION CODES

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CHKD | DATE | APPVL | DATE

DIVISION: ESD
DIVISION CODE
DO NOT SCALE DRAWING
SCALE 2:1
TOLERANCES EXCEPT AS NOTED
INCHES
.0 ±
.00 ±
.000 ±
.0000 ±
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 – 1994
MILLIMETERS
0 ± 0.50
.0 ± 0.20
.00 ± 0.10
.000 ± 0.05
MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY
ANGLES ± 3°

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St. Paul,
MN 55144
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TITLE
SPD08 HIGH SPEED CARD EDGE CONNECTOR, 0.8MM PITCH SMT

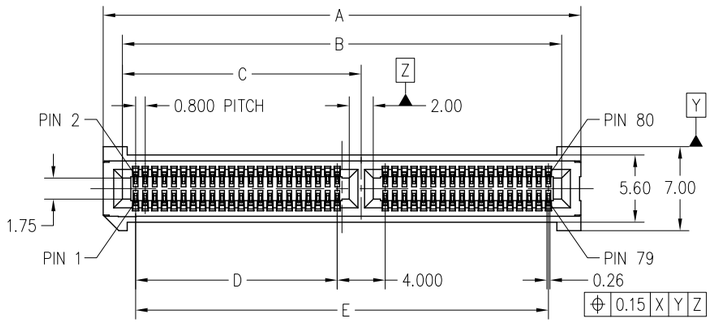
CAGE NUMBER | SIZE C | DRAWING NO. 78-5100-2420-7 | REV. B

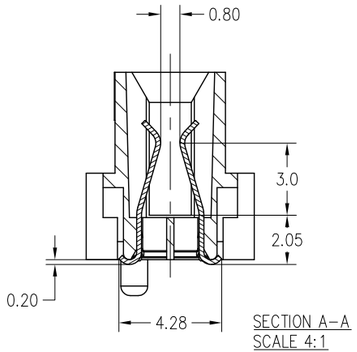
MODEL | DET. LISTS ☐ YES ☐ NO | SHT 1 OF 4

REVISION
DRAWING NUMBER

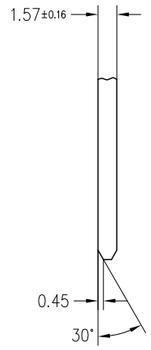
3M™ HIGH SPEED CARD–EDGE CONNECTOR, SPD08 SERIES

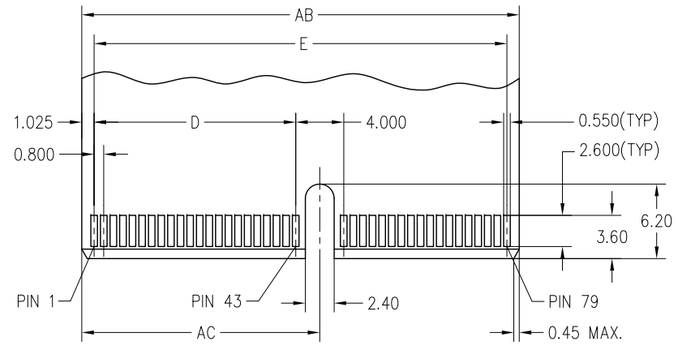
FIG. 2
FOR POSITIONS 050, 080, 100, 120, 140, 160, 180, 200, W/O LATCH TYPE
(SHOWN: SPD08–080–XX–TR)



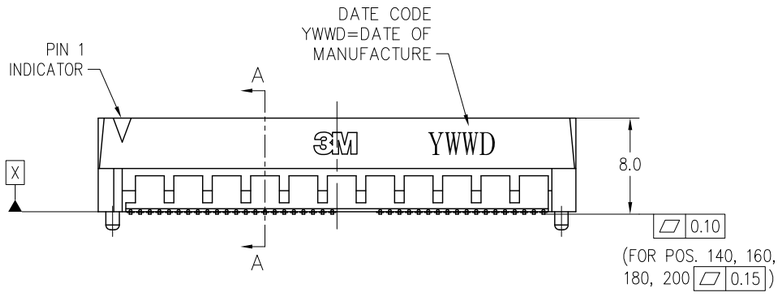


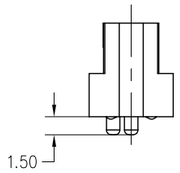
SECTION A–A
SCALE 4:1

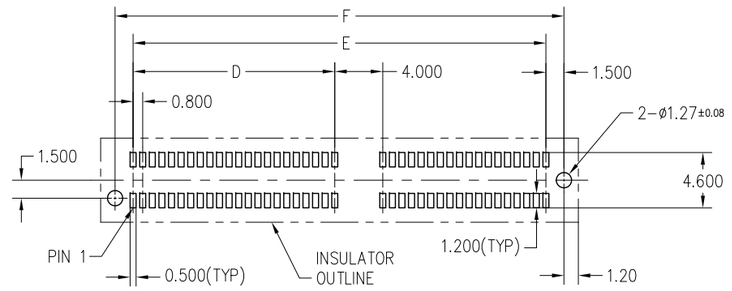




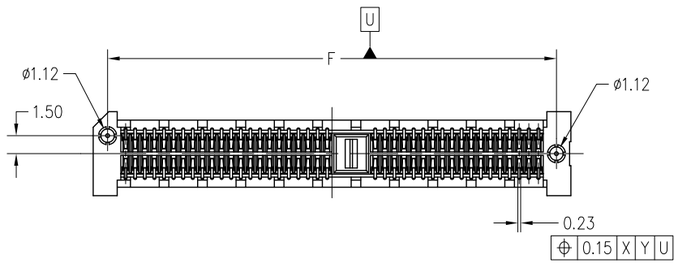
RECOMMENDED MATING CARD LAYOUT

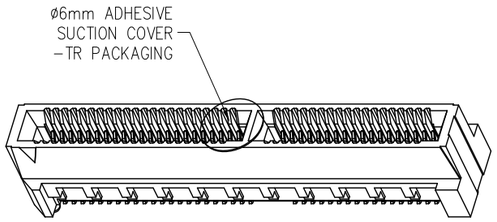






RECOMMENDED PCB LAYOUT





POSITONS	DIMENSIONS							
	A	B	C	D	E	F	AB	AC
50	27.80	24.60	7.10	4.000	22.400	25.40	24.45	7.025
80	39.80	36.60	19.90	16.800	34.400	37.40	36.45	19.825
100	47.80	44.60	23.90	20.800	42.400	45.40	44.45	23.825
120	55.80	52.60	27.90	24.800	50.400	53.40	52.45	27.825
140	63.80	60.60	27.90	24.800	58.400	61.40	60.45	27.825
160	71.80	68.60	27.90	24.800	66.400	69.40	68.45	27.825
180	79.80	76.60	27.90	24.800	74.400	77.40	76.45	27.825
200	87.80	84.60	27.90	24.800	82.400	85.40	84.45	27.825

DESIGN REFERENCE | NEXT ASSEMBLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD

DISTRIBUTION CODES

DRFT K.D. LIU DATE 05/11/11 | MFG | DATE

CHKD | DATE | APPVL | DATE

DIVISION: ESD | DIVISION CODE

DO NOT SCALE DRAWING | SCALE 2:1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 – 1994

MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☐ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

INCHES
.0 ±
.00 ±
.000 ±
.0000 ±

MILLIMETERS
0 ± 0.50
.0 ± 0.20
.00 ± 0.10
.000 ± 0.05

ANGLES ± 3°

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TITLE

SPD08 HIGH SPEED CARD EDGE CONNECTOR, 0.8MM PITCH SMT

CAGE NUMBER | SIZE C | DRAWING NO. 78–5100–2420–7 | REV. B

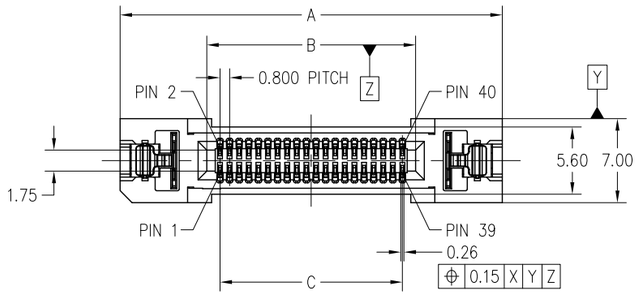
MODEL | DET. LISTS ☐ YES ☐ NO | SHT 2 OF 4

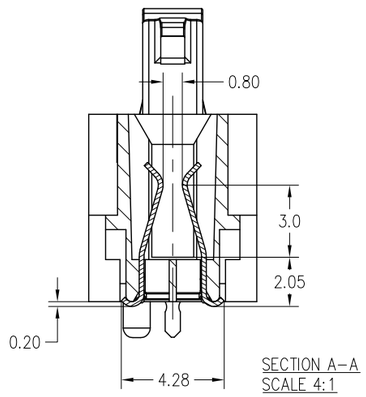
REVISION

DRAWING NUMBER

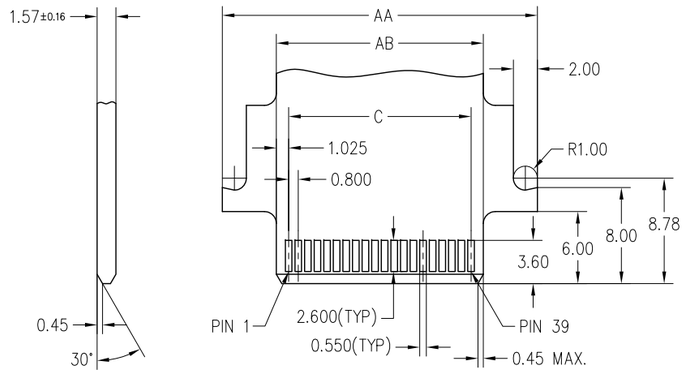
3M™ HIGH SPEED CARD–EDGE CONNECTOR, SPD08 SERIES

FIG. 3
FOR POSITIONS 020, 040, 060,
WITH LATCH TYPE
(SHOWN: SPD08–040–L–XX–TR)

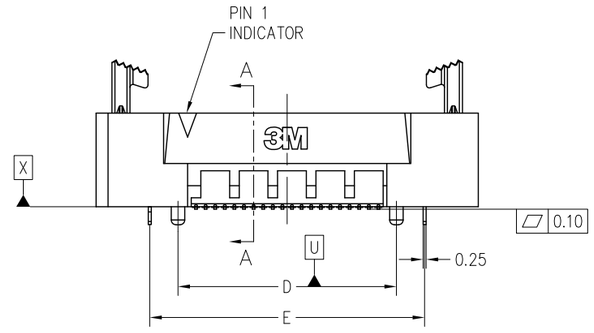


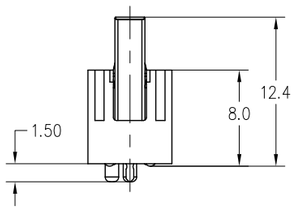


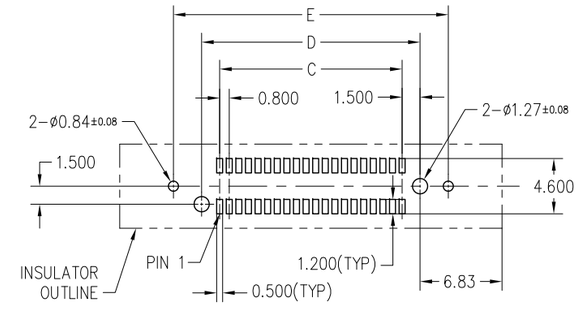
SECTION A–A
SCALE 4:1



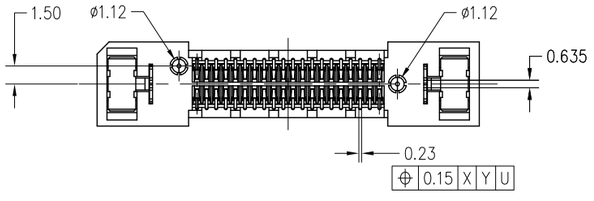
RECOMMENDED MATING CARD LAYOUT

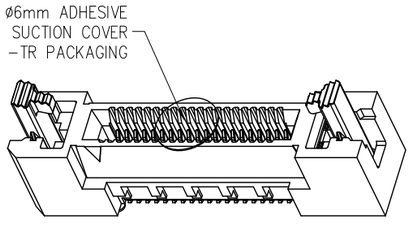






RECOMMENDED PCB LAYOUT





POSITIONS	DIMENSIONS						
	A	B	C	D	E	AA	AB
20	23.85	9.40	7.200	10.20	14.90	18.25	9.25
40	31.85	17.40	15.200	18.20	22.90	26.25	17.25
60	39.85	25.40	23.200	26.20	30.90	34.25	25.25

DESIGN REFERENCE | NEXT ASSEMBLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD

DISTRIBUTION CODES | DRFT K.D. LIU | DATE 05/11'11 | MFG | DATE
CHKD | DATE | APPVL | DATE

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DIVISION CODE:
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TOLERANCES EXCEPT AS NOTED
INCHES
.0 ±
.00 ±
.000 ±
.0000 ±
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 – 1994
MILLIMETERS
0 ± 0.50
.0 ± 0.20
.00 ± 0.10
.000 ± 0.05
MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY
ANGLES ± 3°

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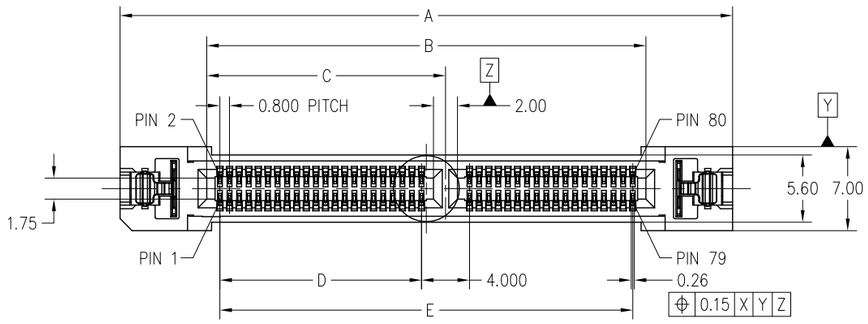
TITLE
SPD08 HIGH SPEED CARD EDGE CONNECTOR, 0.8MM PITCH SMT

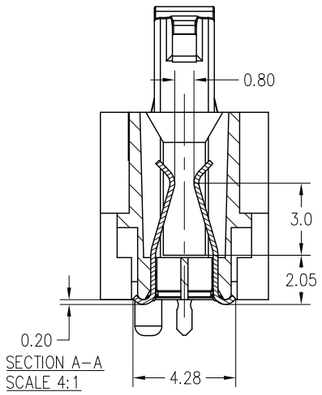
CAGE NUMBER | SIZE C | DRAWING NO. 78–5100–2420–7 | REV. B
MODEL | DET. LISTS ☐ YES ☐ NO | SHT 3 OF 4

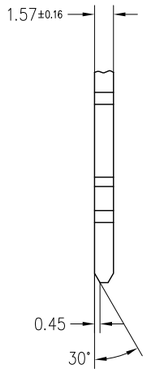
REVISION
DRAWING NUMBER

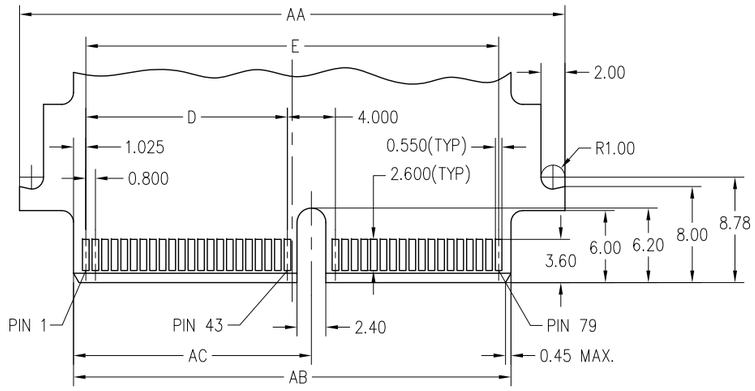
3M™ HIGH SPEED CARD–EDGE CONNECTOR, SPD08 SERIES

FIG. 4
FOR POSITIONS 050, 080, 100, 120, 140, 160, 180, 200, WITH LATCH TYPE
(SHOWN: SPD08–080–L–XX–TR)

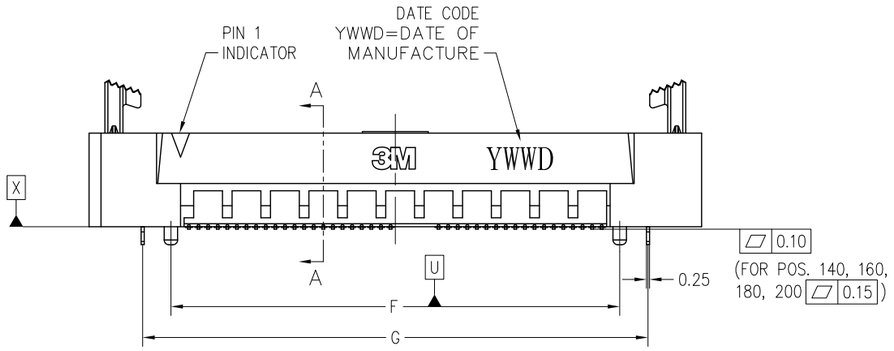


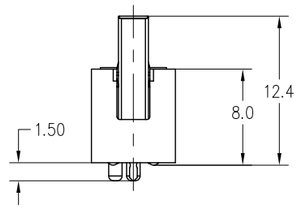


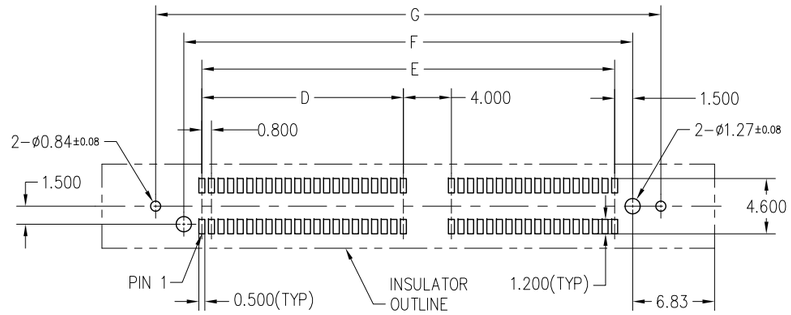




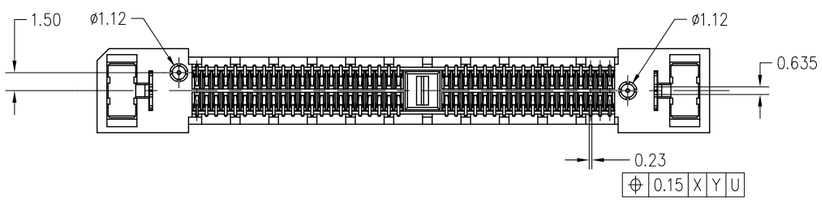
RECOMMENDED MATING CARD LAYOUT

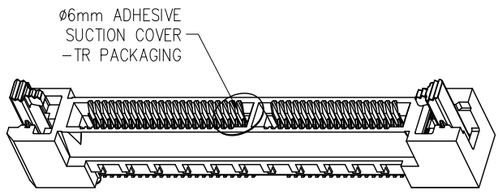






RECOMMENDED PCB LAYOUT





POSITIONS	DIMENSIONS									
	A	B	C	D	E	F	G	AA	AB	AC
50	39.05	24.60	7.10	4.000	22.400	25.40	30.10	33.45	24.45	7.025
80	51.05	36.60	19.90	16.800	34.400	37.40	42.10	45.45	36.45	19.825
100	59.05	44.60	23.90	20.800	42.400	45.40	50.10	53.45	44.45	23.825
120	67.05	52.60	27.90	24.800	50.400	53.40	58.10	61.45	52.45	27.825
140	75.05	60.60	27.90	24.800	58.400	61.40	66.10	69.45	60.45	27.825
160	83.05	68.60	27.90	24.800	66.400	69.40	74.10	77.45	68.45	27.825
180	91.05	76.60	27.90	24.800	74.400	77.40	82.10	85.45	76.45	27.825
200	99.05	84.60	27.90	24.800	82.400	85.40	90.10	93.45	84.45	27.825

DESIGN REFERENCE | NEXT ASSEMBLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD

DISTRIBUTION CODES

DRFT K.D. LIU DATE 05/11'11 MFG DATE

CHKD DATE APPVL DATE

DIVISION: ESD

DIVISION CODE

DO NOT SCALE DRAWING | SCALE 2:1

TOLERANCES EXCEPT AS NOTED

INCHES
.0 ±
.00 ±
.000 ±
.0000 ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 – 1994

MILLIMETERS
0 ± 0.50
.0 ± 0.20
.00 ± 0.10
.000 ± 0.05

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY

ANGLES ± 3°

3M Center
St. Paul, MN 55144

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TITLE

SPD08 HIGH SPEED CARD EDGE CONNECTOR, 0.8MM PITCH SMT

CAGE NUMBER | SIZE C | DRAWING NO. 78–5100–2420–7 | REV. B

MODEL | DET. LISTS ☐ YES ☐ NO | SHT 4 OF 4

REVISION

DRAWING NUMBER

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