REVISION AL
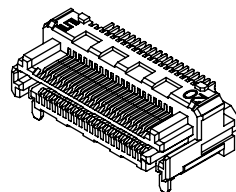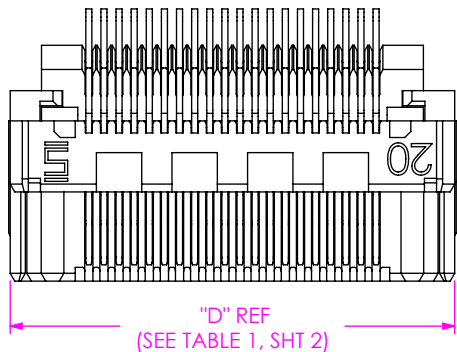
DESIGNED & DIMENSIONED
IN MILLIMETERS[INCHES]

LSHM-1XX-XX-XXX-DH-A-X-X-XR

No OF POSITIONS
-05, -10, -20, -30, -40, -50

LEAD STYLE
-01: RIGHT ANGLE ONLY
-L1: LUBRICATED
(SEE TABLE 2, SHT 5)

PLATING SPECIFICATION
-L: 10µ'' LIGHT SELECTIVE GOLD ON CONTACT
AREA, MATTE TIN ON TAIL
-F: 3µ'' FLASH SELECTIVE GOLD ON CONTACT
AREA, MATTE TIN ON TAIL
-S: 30µ'' FLASH SELECTIVE GOLD ON CONTACT
AREA, MATTE TIN ON TAIL
-H: 30µ'' HEAVY GOLD ON CONTACT
AREA, 3µ'' GOLD ON TAIL
-LTL: 10µ'' LIGHT SELECTIVE GOLD ON CONTACT
AREA, LEAD TIN ON TAIL

TAPE & REEL(SEE NOTES 6 & 9)
-TR: TAPE & REEL
-FR: FULL REEL QTY. TAPE & REEL

OPTION
-K: POLYAMIDE FILM
(USE K-DOT-.177-.281-.005)
(NOT AVAILABLE WITH -05 POS
WHEN -N OPTION SELECTED)

SHIELD
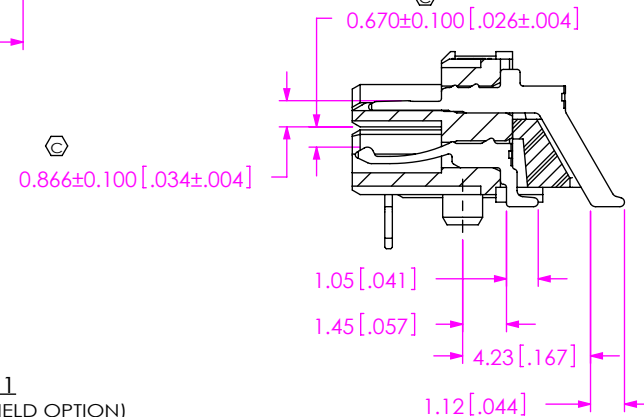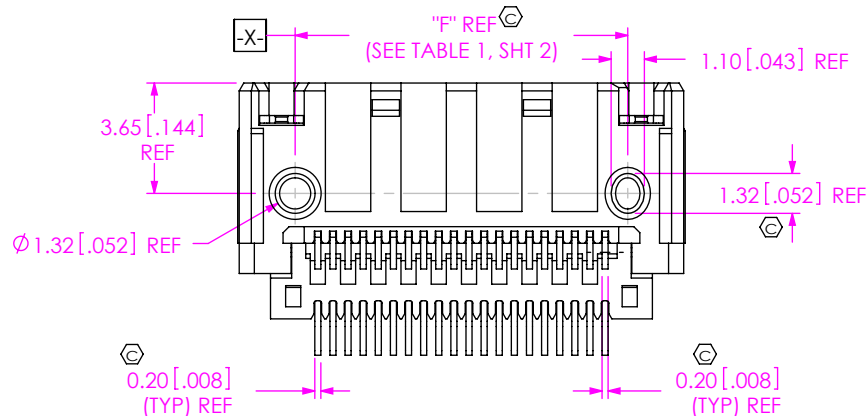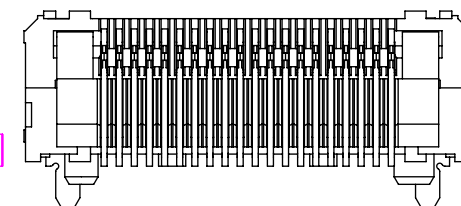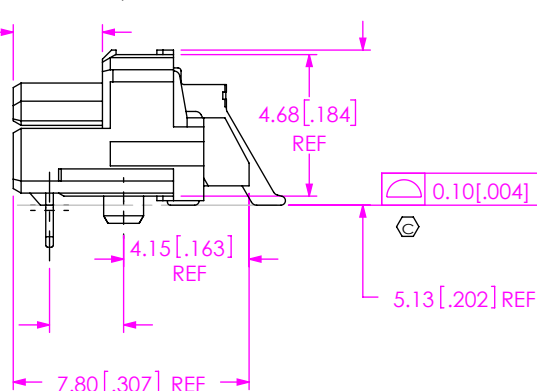-S: WITH SHIELD
-N:WITHOUT SHIELD

TAIL OPTION
-DH: RIGHT ANGLE

"D" REF
(SEE TABLE 1, SHT 2)

LSHM-XX-01-DH-A

"A"

PIN 1
(SEE NOTE 4)

PIN 2
(SEE NOTE 4)

2.64[.104]
REF

PIN N
(SEE NOTE 4)   "A"

0.50[.020]TYP

"C" REF
(SEE TABLE 1, SHT 2)

1.39[.055] REF

WT-50-T

2.95[.116]
REF

4.68[.184]
REF

0.10[.004]

4.15[.163]
REF

5.13[.202]REF

2.45[.096]

7.80[.307] REF

0.670±0.100[.026±.004]

0.866±0.100[.034±.004]

"F" REF
(SEE TABLE 1, SHT 2)

-X-

1.10[.043] REF

3.65[.144]
REF

1.32[.052] REF

Ø1.32[.052] REF

0.20[.008]
(TYP) REF

0.20[.008]
(TYP) REF
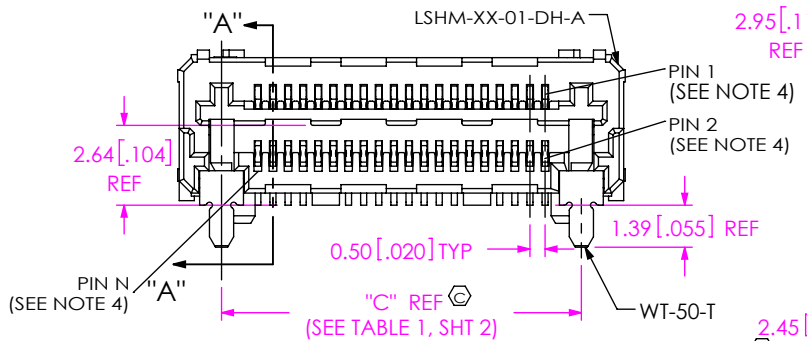
FIG 1
(WITHOUT SHIELD OPTION)
LSHM-1XX-X1-XXX-DH-A-N-X-XR SHOWN

1.05[.041]

1.45[.057]

4.23[.167]

1.12[.044]

SECTION "A"-"A"
SCALE 4 : 1

NOTES:
1. © REPRESENTS A CRITICAL DIMENSION.
2. REFER TO COMPONENT PRINTS FOR MAX BURR ALLOWANCE.
3. MINIMUM PUSHOUT FORCE: BOTH CONTACT AND WELD TAB ARE 2.22 N [.5 LBS].
4. WHEN MATING WITH ANOTHER LSHM-DH, PIN 01 WILL MATE WITH CONTACT 02
ON MATING CONNECTOR. WHEN MATING WITH A LSHM-DV, PIN 01 WILL MATE
WITH PIN N, WHERE N=TOTAL NUMBER OF POSITIONS MULTIPLY BY TWO.
5. MEASURE FROM TOP OF VERTICAL WALL.
6. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY
STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
7. FOR APPLICATIONS REQUIRING TWO OR MORE CONNECTORS PER BOARD,
CONTACT IPG@SAMTEC.COM.
8. USE -Z- DATUM ZONE ONLY FOR MEASUREMENTS.
9. ATTACH LABEL TO EACH REEL.
10. IT NEEDS TO INSPECT BOTTOW ROW CONTACTS, TOP ROW CONTACTS, TWO WELD
TAB WT-135-X.

DESCRIPTION:
0.50mm TERMINAL/SOCKET COMBO

DWG. NO.
LSHM-1XX-XX-XXX-DH-A-X-X-XR

BY: AGEN H   10/30/2008   SHEET 1 OF 5

DO NOT
SCALE FROM
THIS PRINT

F:\DWG\MISC\MKTG\LSHM-1XX-XX-XXX-DH-A-X-X-XR-MKT.SLDDRW

REVISION AL

TABLE 1

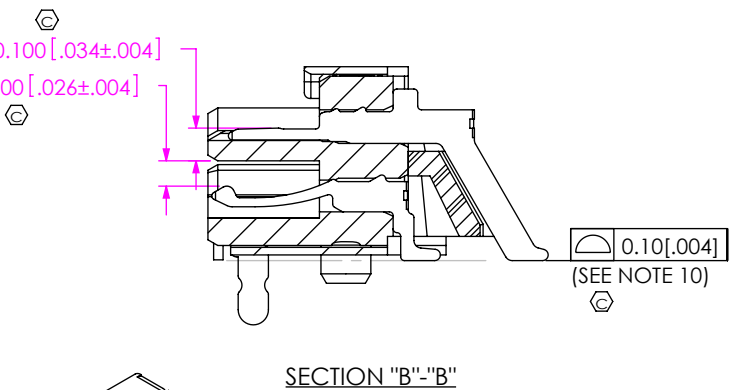| No OF POS	"C"	"D"	"E"	"F"	"G"
-05	4.40 [0.173]	7.20 [0.283]	7.45 [0.293]	3.50 [0.138]	1.35 [0.053]
-10	6.90 [0.272]	9.70 [0.382]	9.95 [0.392]	6.00 [0.236]	2.60 [0.102]
-20	11.90 [0.469]	14.70 [0.579]	14.95 [0.589]	11.00 [0.433]	5.10 [0.201]
-30	16.90 [0.665]	19.70 [0.776]	19.95 [0.785]	16.00 [0.630]	7.60 [0.299]
-40	21.90 [0.862]	24.70 [0.972]	24.95 [0.982]	21.00 [0.827]	10.10 [0.398]
-50	26.90 [1.059]	29.70 [1.169]	29.95 [1.179]	26.00 [1.024]	12.60 [0.496]

"D" REF

"B"

"B"

0.50 [.020] (TYP)

WT-135-T

"E" REF

SH158-XX-01-DH-N

2.75 [.108] REF

0.866±0.100 [.034±.004]

0.670±0.100 [.026±.004]

5.13 [.202] REF

1.70 [.067] REF

2.45 [.096]

4.15 [.163]

7.80 [.307] REF

0.10 [.004]
(SEE NOTE 10)

SECTION "B"-"B"

"F" REF

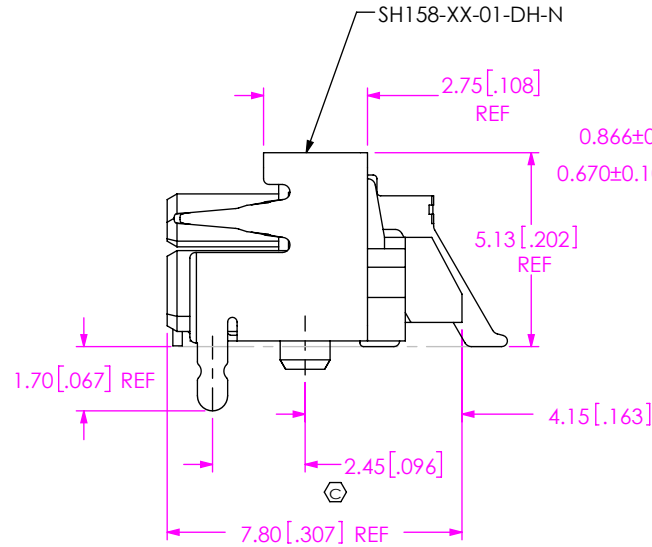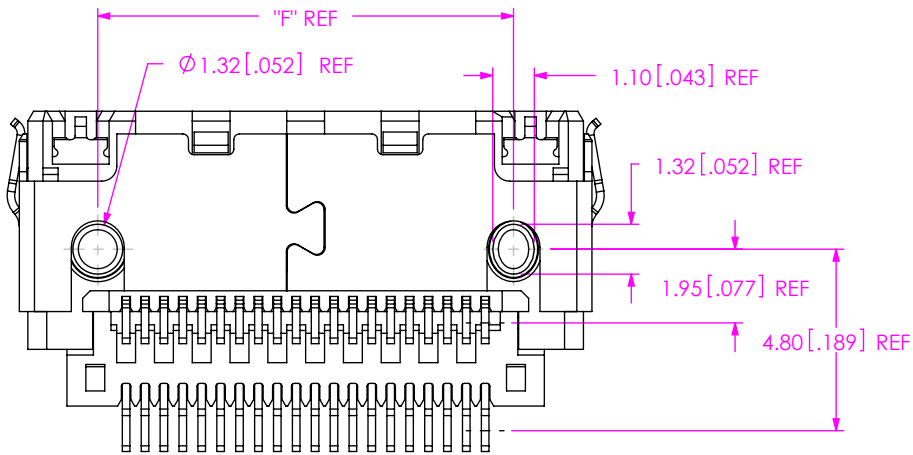Ø 1.32 [.052] REF

1.10 [.043] REF

1.32 [.052] REF

1.95 [.077] REF

4.80 [.189] REF

FIG 2
(SHIELD OPTION)
LSHM-1XX-X1-XXX-DH-A-S-X-XR SHOWN

F:\DWG\MISC\MKTG\LSHM-1XX-XX-XXX-DH-A-X-X-XR-MKT.SLDDRW

DO NOT SCALE DRAWING
SHEET SCALE: 1:0.2

DESCRIPTION:
0.50mm TERMINAL/SOCKET COMBO

DWG. NO.
LSHM-1XX-XX-XXX-DH-A-X-X-XR

BY: AGEN H   10/30/2008   SHEET 2 OF 5

REVISION AL

INSPECTION VIEW 1
(FILL BOTTOM ROW)

"J"

Z1   Z2

"J"

0.85 [.033]

Ⓒ

C-261-02-XXX/C-261-L2-XXX

Ⓒ

0.15 [.006] REF
(BOTTOM ROW)
(SEE NOTE 8)

| 0.10 [.004] |
WITHIN ROW

Ⓒ

SECTION "J"

'M'   'N'

Z1   Z2

Ⓒ

0.15±0.05 [.006±.002]
(BOTTOM ROW)
(SEE NOTE 8)

Ⓒ

| 0.10 [.004] |
WITHIN ROW

Ⓒ

DETAIL 'M'
SCALE 8 : 1

DETAIL 'N'
SCALE 8 : 1

0.15±0.05 [.006±.002]
(BOTTOM ROW)
(SEE NOTE 8)
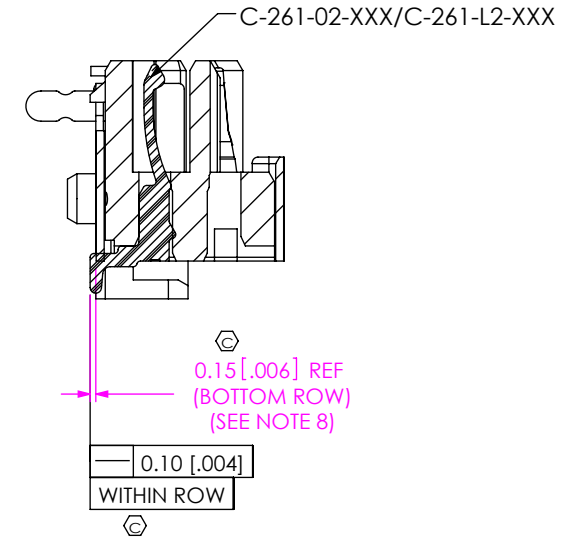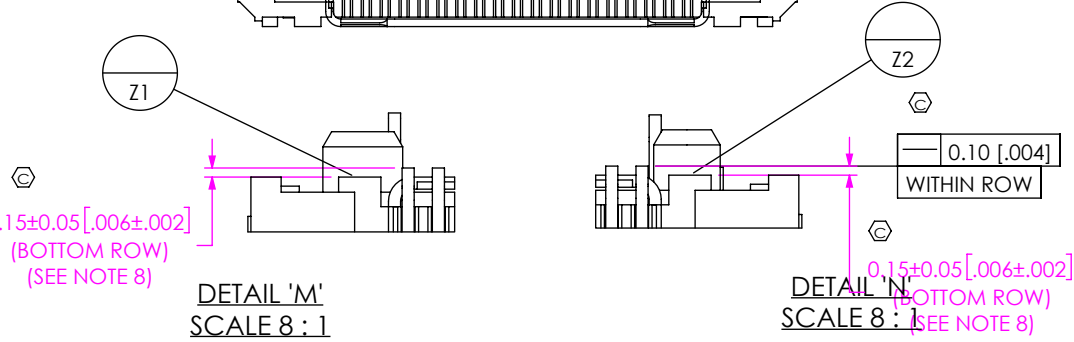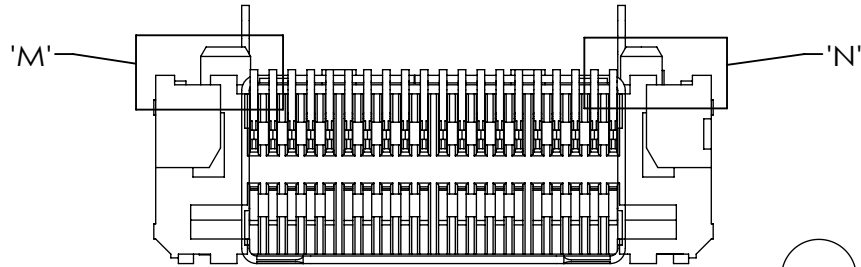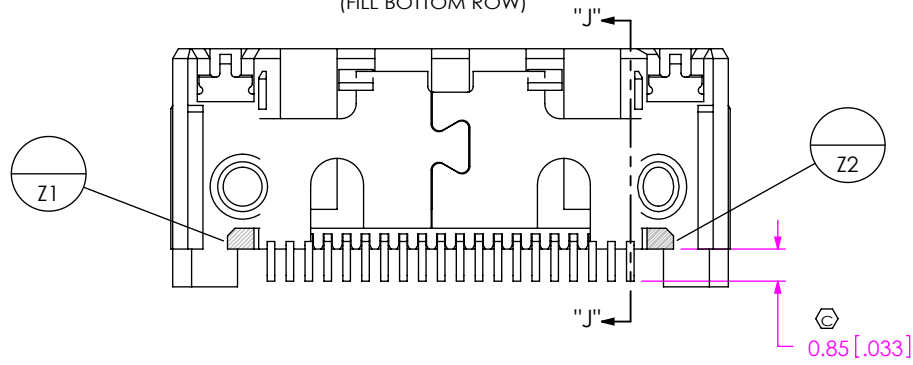
FIG 4
(IN PROCESS 1)
(SEE INSPECTION VIEW 1 FOR ORIENTATION AND CPC'S)
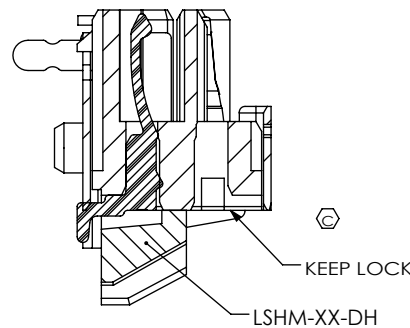
"K"

2.50 [.098]

Ⓒ

"K"

KEEP LOCK

LSHM-XX-DH

FIG 5
(IN PROCESS 2)

SECTION "K"-"K"

DO NOT SCALE DRAWING
SHEET SCALE: 5:1

DESCRIPTION:
0.50mm TERMINAL/SOCKET COMBO

DWG. NO.
LSHM-1XX-XX-XXX-DH-A-X-X-XR

BY: AGEN H   10/30/2008   SHEET 3 OF 5

REVISION AL

INSPECTION VIEW 2
(FILL TOP ROW)

"L"

Z1   Z2

3.70 [.146] ©

"L"

'P'   'Q'

Z1   Z2

Z1
0.15±0.05[.006±.002]
(TOP ROW)
(SEE NOTE 8)

DETAIL 'P'
SCALE 8 : 1

0.10[.004]
WITHIN ROW

DETAIL 'Q'
SCALE 8 : 1

0.15±0.05[.006±.002]
(TOP ROW)
(SEE NOTE 8)

C-261-03-XXX/C-261-L3-XXX

0.15[.006] REF
(TOP ROW)
(SEE NOTE 8)

0.10[.004]	©
WITHIN ROW	
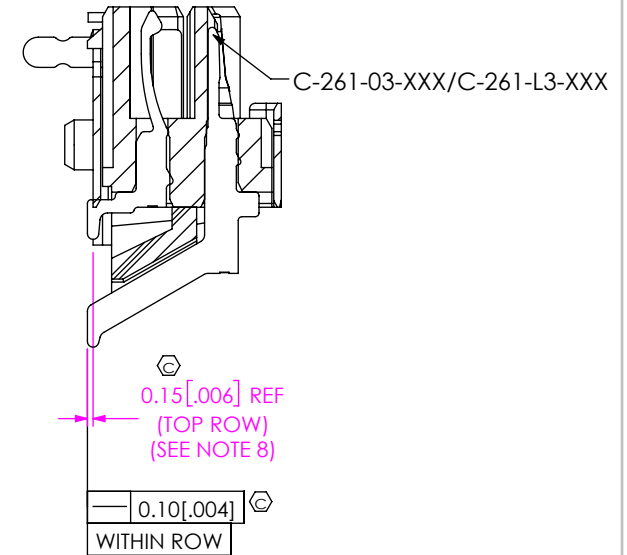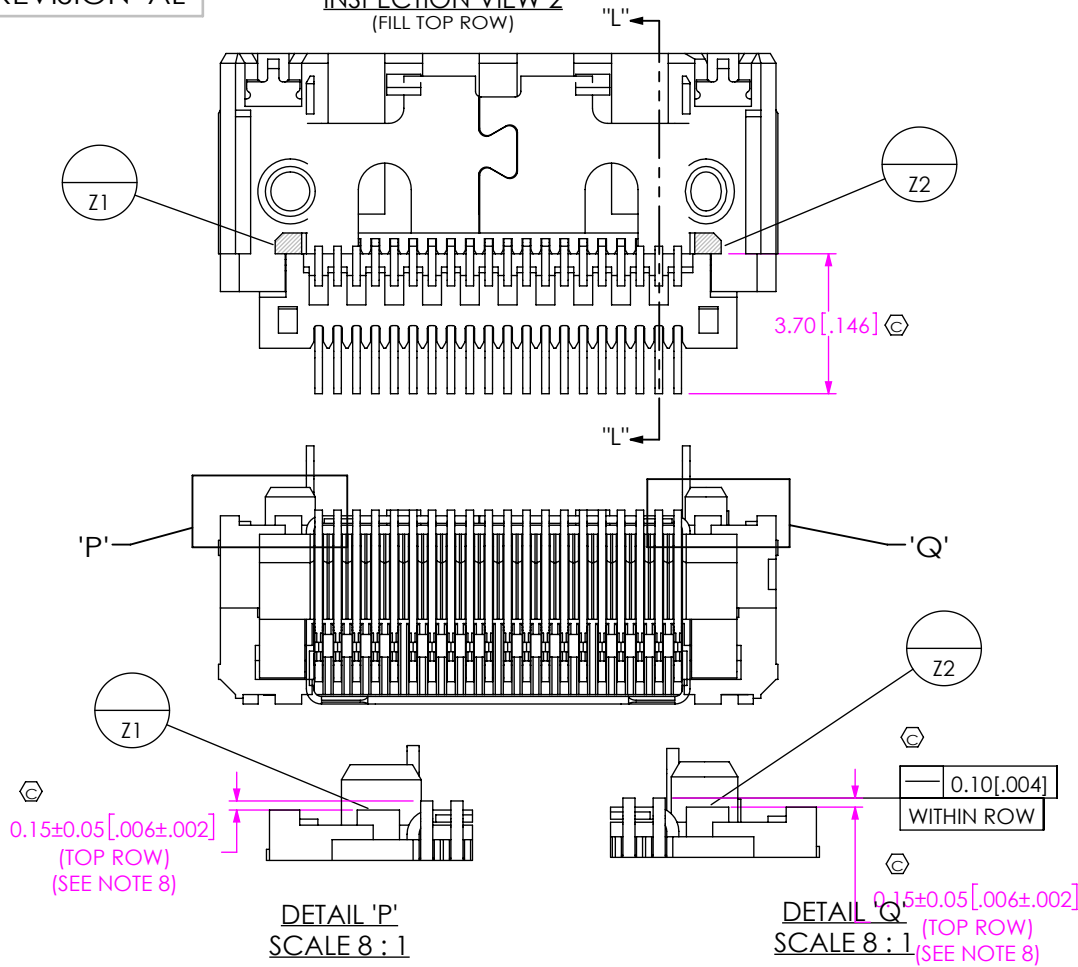
SECTION "L"-"L"

FIG 6
(IN PROCESS 3)
(SEE INSPECTION VIEW 2 FOR ORIENTATION AND CPC'S)
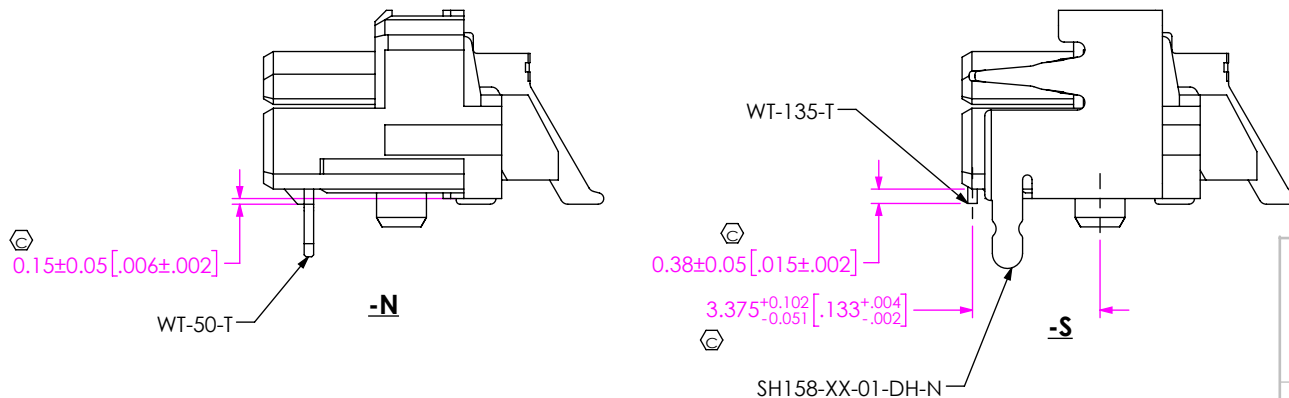
0.15±0.05[.006±.002]

WT-50-T

-N

WT-135-T

0.38±0.05[.015±.002]

3.375 +0.102 −0.051 [.133 +.004 −.002]

SH158-XX-01-DH-N

-S

FIG 7
(IN PROCESS 4)

DO NOT SCALE DRAWING
SHEET SCALE: 5:1

DESCRIPTION:
0.50mm TERMINAL/SOCKET COMBO

DWG. NO.
LSHM-1XX-XX-XXX-DH-A-X-X-XR
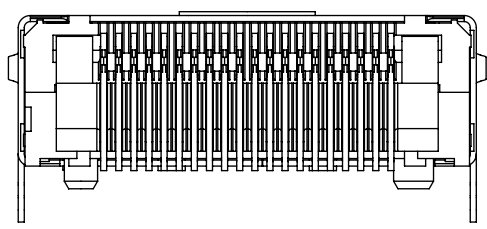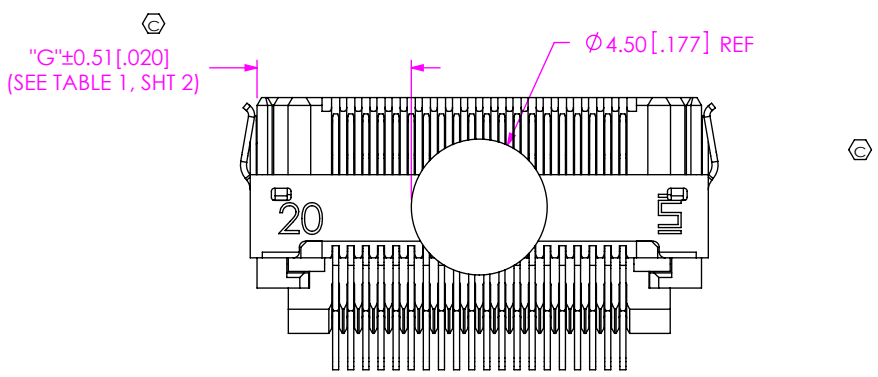
BY: AGEN H   10/30/2008   SHEET 4 OF 5

F:\DWG\MISC\MKTG\LSHM-1XX-XX-XXX-DH-A-X-X-XR-MKT.SLDDRW

"G"±0.51[.020]
(SEE TABLE 1, SHT 2)

∅4.50[.177] REF

20

5

FIG 8
LSHM-1XX-X1-XXX-DH-A-S-X-XR SHOWN

TABLE 2	
LEAD STYLE	CONTACT
-01	C-261-02-XXX
	C-261-03-XXX
-L1	C-261-L2-XXX
	C-261-L3-XXX

samtec

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733   FAX: 812-948-5047
e-Mail   info@SAMTEC.com   code 55322

DO NOT SCALE DRAWING

DESCRIPTION:
0.50mm TERMINAL/SOCKET COMBO

DWG. NO.
LSHM-1XX-XX-XXX-DH-A-X-X-XR

BY: AGEN H   10/30/2008   SHEET 5 OF 5