

DO NOT
SCALE FROM
THIS PRINT

LPHS-XX-XX-X-RTX-XX

POWER POS (TOTAL)

-02, -04, -06, -08,
-10, *-12, *-14

SIGNAL POS (TOTAL)

-12, -16, -20, -24,
-28, -32, *-36, *-40

PLATING SPECIFICATION

-L: 10 μ " SELECTIVE GOLD IN CONTACT
AREA, MATTE TIN ON TAIL
-S: 30 μ " SELECTIVE GOLD IN CONTACT
AREA, MATTE TIN ON TAIL
(SEE NOTE 7)

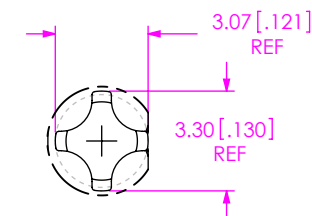
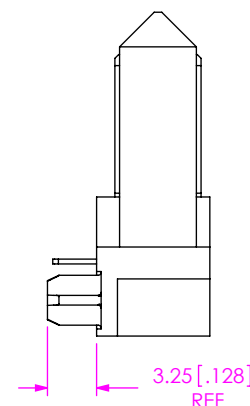
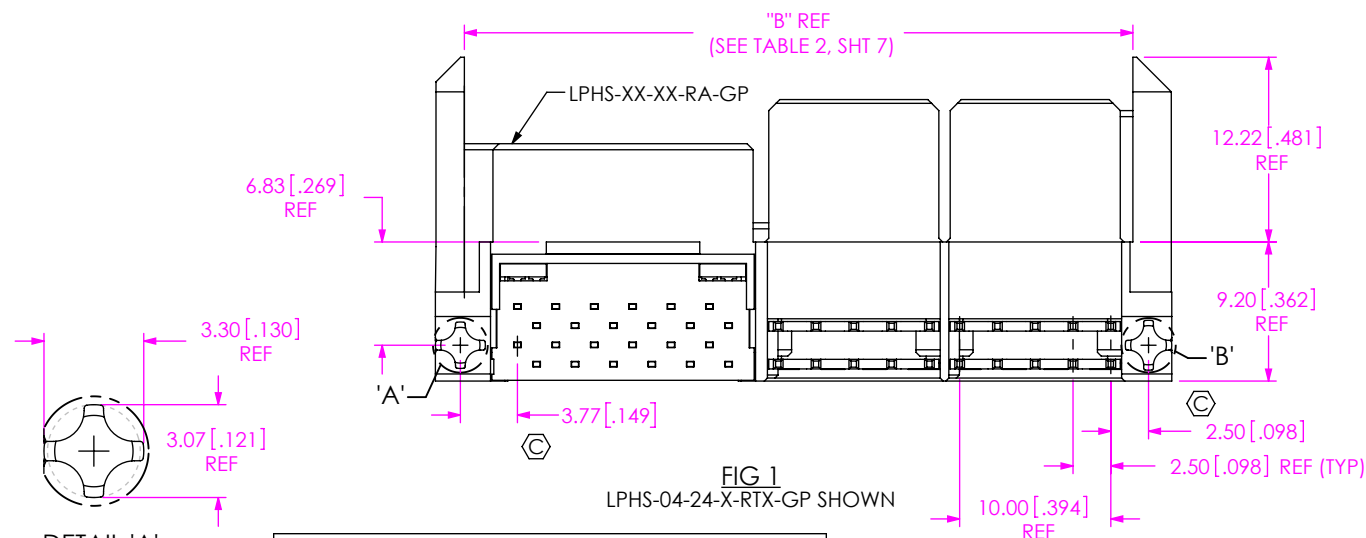
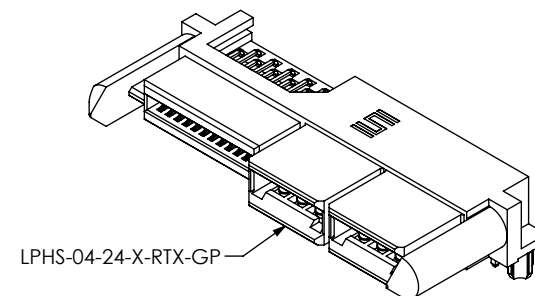
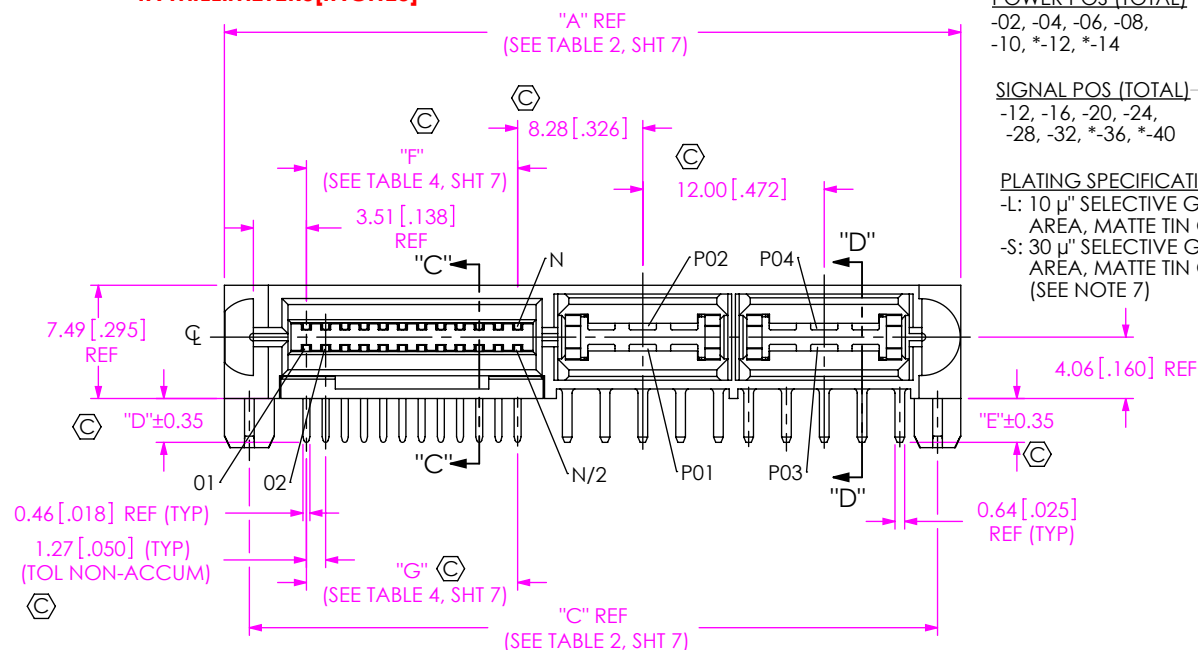
OPTIONS

-GP: GUIDE POSTS
(LEAVE BLANK FOR NO -GP OPTION)
-BLANK: NO GP OPTION

— TAIL

-RT1:RA-TH, 1.58[.062] BOARD
-RT2: RA-TH, 2.36[.093] BOARD

(* = NOT TOOLED)



DETAIL 'B'

SCALE 4 : 1

DETAIL 'A'

SCALE 4 : 1

FIG 1
LPHS-04-24-X-RTX-GP SHOWN

TAIL	ROW 1 POWER	ROW 2 POWER	"D"	"E"
-RT1	C-377-02-01-X	C-377-01-01-X	2.90 [.114]	2.90 [.114]
-RT2	C-377-02-02-X	C-377-01-02-X	3.60 [.142]	3.60 [.142]

NOTES:

1.  REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSHOUT FORCE: SIGNAL: 0.5 LBS, POWER PIN: 3.0 LBS.
3. MAXIMUM ALLOWABLE BOW: 0.15[0.06] MM/MM AFTER ASSEMBLY.
4. MAXIMUM BURR ON SHEARED TAILS: 0.15[.006].
5. ALL P/N'S REQUIRE PRESSING TO PCB DUE TO ALIGNMENT PEGS,
CONTACT SAMTEC FOR REQUIRED FIXTURES,
6. ASSEMBLIES TO BE PACKAGED IN TRAYS.
7. SELECTIVE PLATING LUBRICATED WITH ACCL-53T WHICH CAN BE
DETECTED USING A UVA ULTRAVIOLET LIGHT SOURCE.

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:

DECIMALS

X.X: ± 0.3 [.01]

X.XX: ± 0.13 [.005]

X.XXX: ± 0.051 [.0020]

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MATERIAL:

DO NOT SCALE DRAWING

INSULATOR: LCP, COLOR: BLACK
SIGNAL CONTACT : BRASS
POWER CONTACT: COPPER ALLOY

F:\DWG\MISC\MKTG\LPHS-XX-XX-X-RTX-XX-MKT.SLDDRW

samtec

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

DESCRIPTION:	
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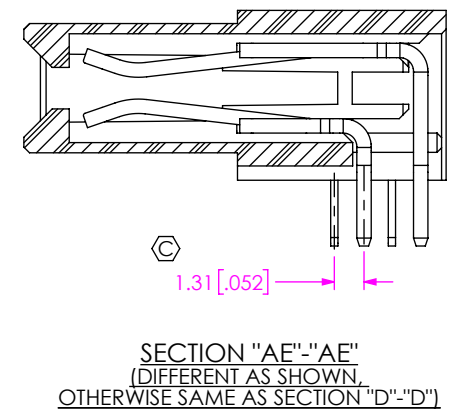
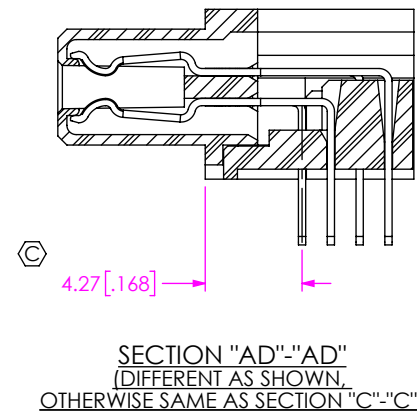
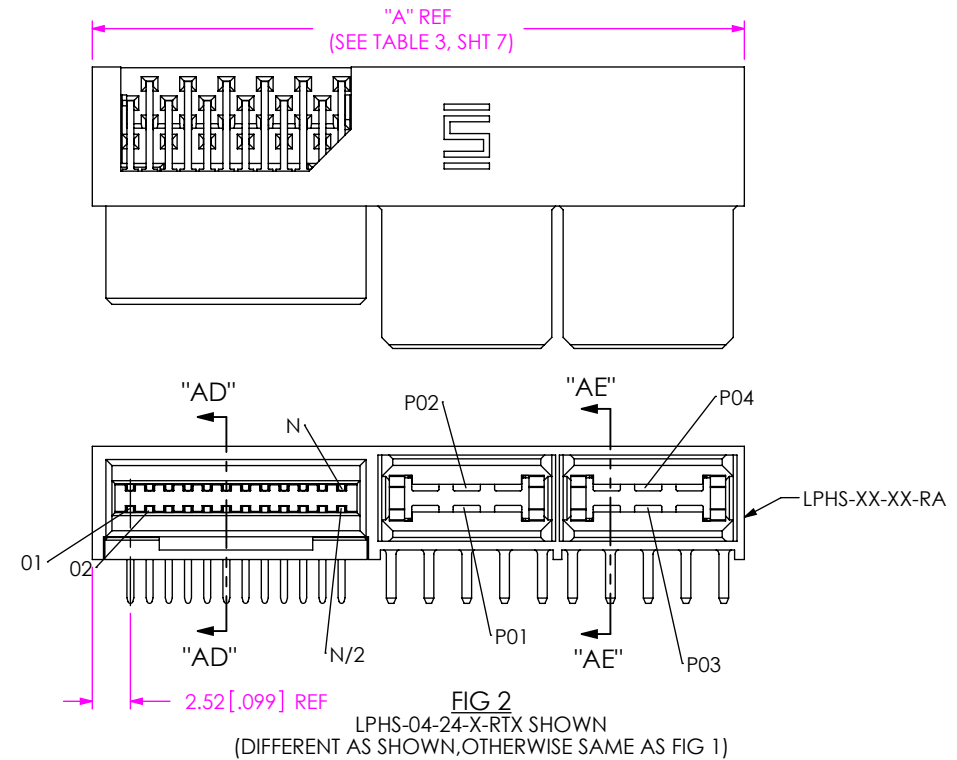
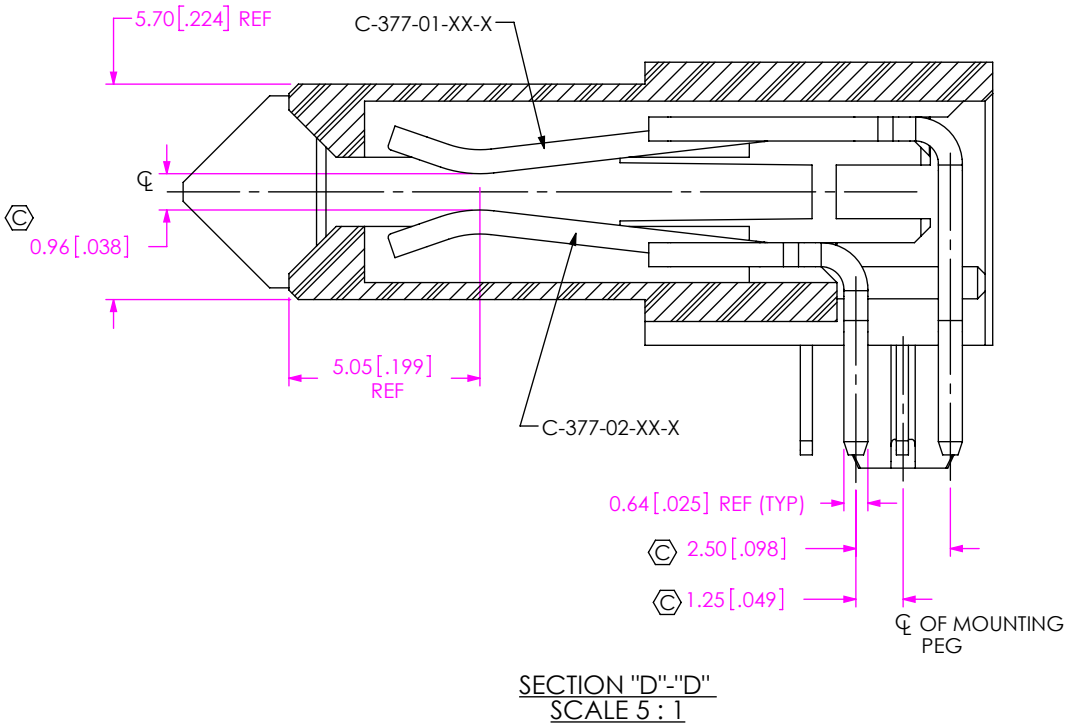
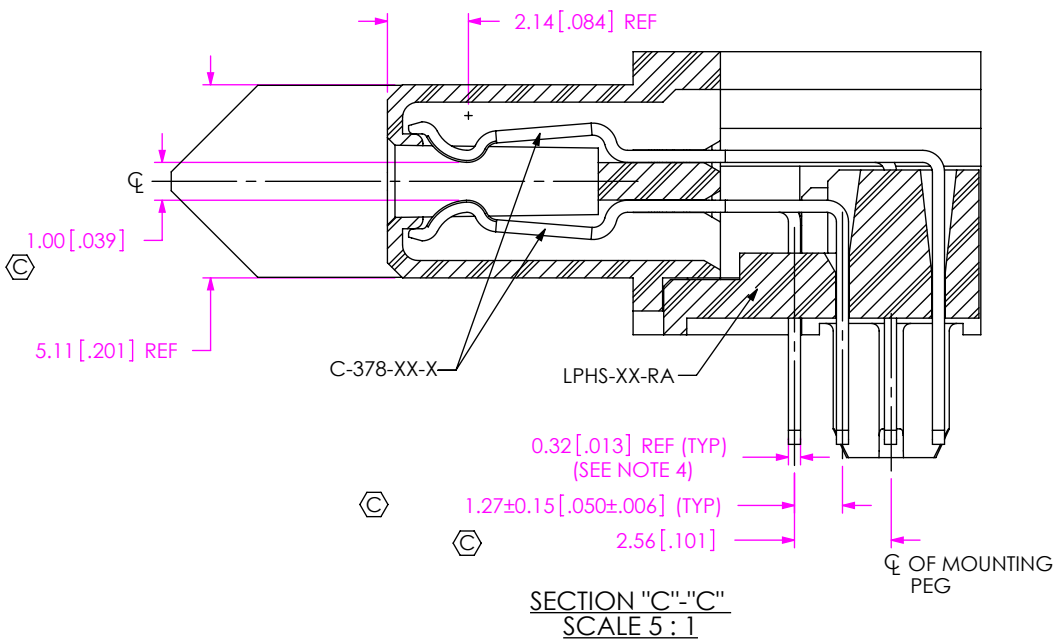
LPHS-RA SOCKET ASSEMBLY

DWG. NO.

LPHS-XX-XX-X-RTX-XX

BY: ROY LUO

12/13/2011	SHEET 1 OF 7
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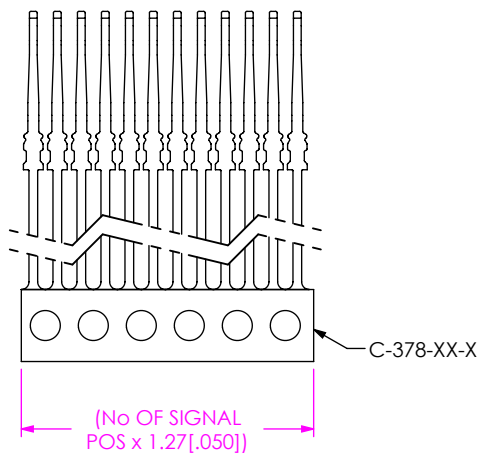
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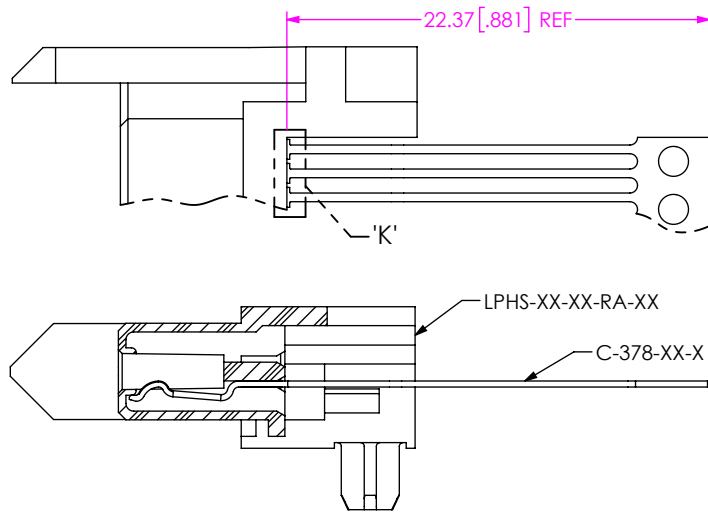
DESCRIPTION: LPHS-RA SOCKET ASSEMBLY

DWG. NO. LPHS-XX-XX-X-RTX-XX

BY: ROY LUO 12/13/2011 SHEET 2 OF 7

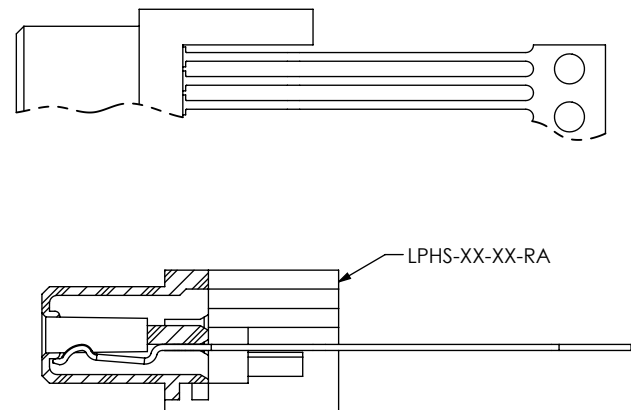


IN-PROCESS 1
CUT COMB & REMOVE TIE BARS FOR C-378-XX-X

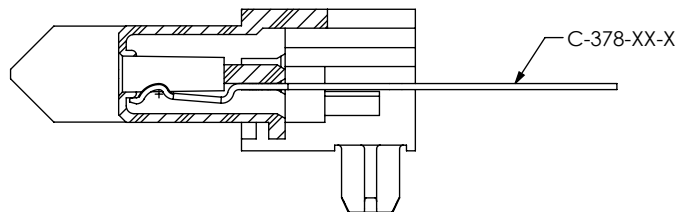
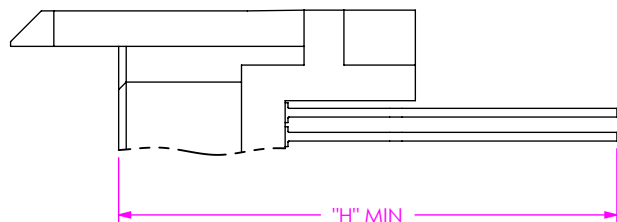


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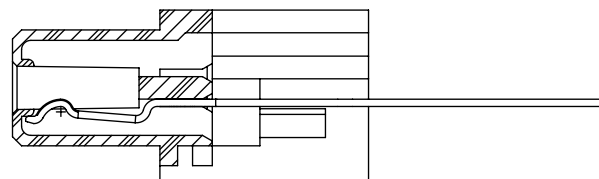
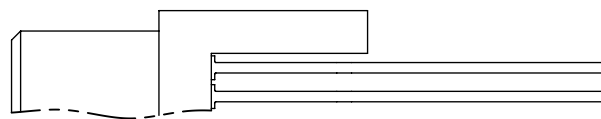
IN-PROCESS 2
FILL SIGNAL BOTTOM ROW



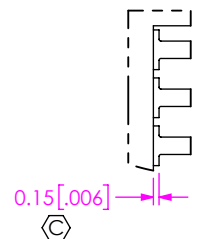
NO GP OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)



GP OPTION



NO GP OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)



DETAIL 'K'
SCALE 5 : 1

IN-PROCESS 3
CUT OFF CARRIER

TABLE 5	
TAIL	"H"
-RT1	19.36 [.762]
-RT2	20.06 [.790]

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SHEET SCALE: 2.5:1

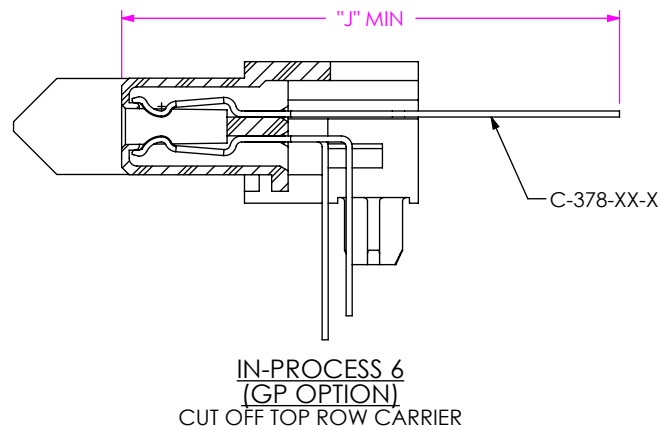
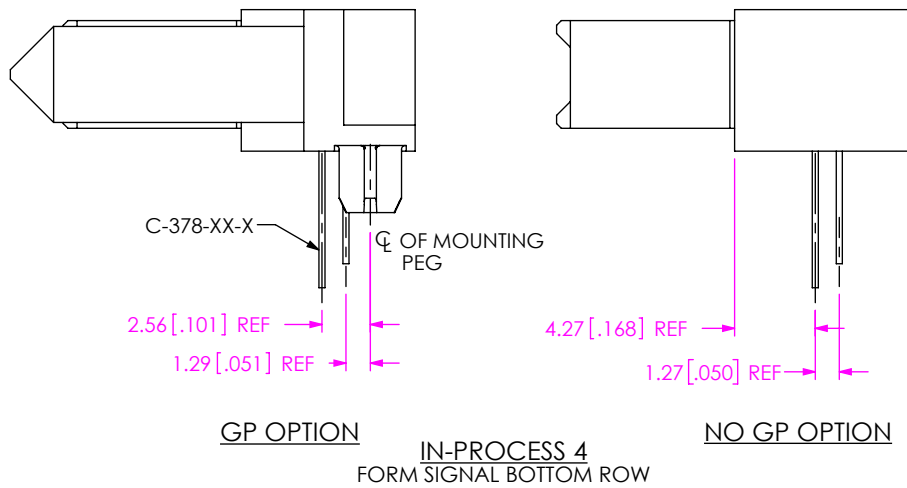
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520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: LPHS-RA SOCKET ASSEMBLY

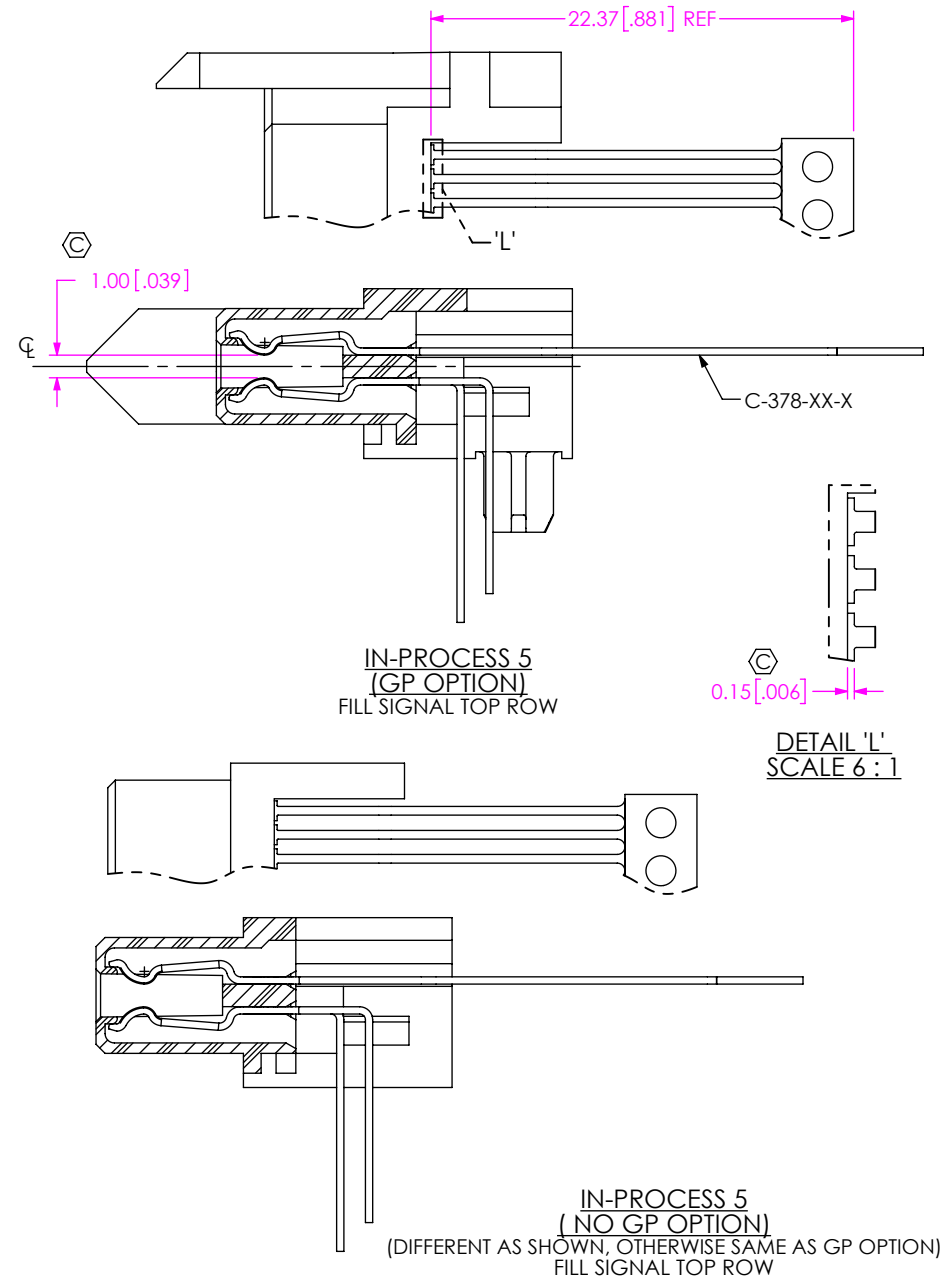
DWG. NO. LPHS-XX-XX-X-RTX-XX

BY: ROY LUO 12/13/2011 SHEET 3 OF 7



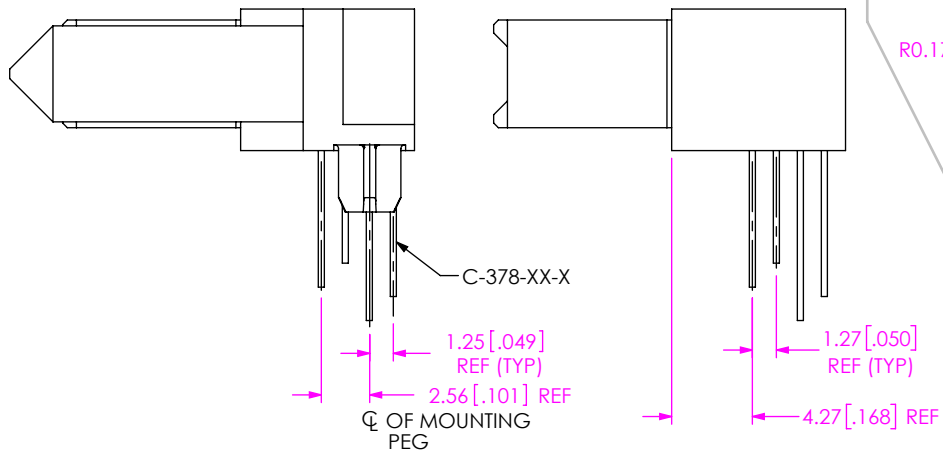
IN-PROCESS 6
(NO GP OPTION)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)
CUT OFF TOP ROW CARRIER

TABLE 6	
TAIL	"J"
-RT1	23.22 [.914]
-RT2	23.92 [.942]



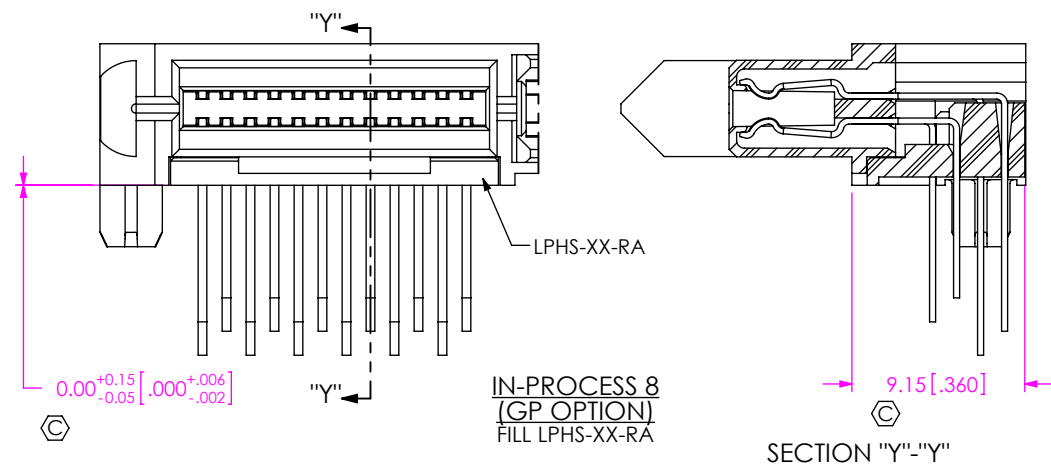
DETAIL 'L'
SCALE 6:1

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DO NOT SCALE DRAWING SHEET SCALE: 2.5:1	
samtec 520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code 55322	
DESCRIPTION: LPHS-RA SOCKET ASSEMBLY	
DWG. NO. LPHS-XX-XX-X-RTX-XX	
BY: ROY LUO 12/13/2011 SHEET 4 OF 7	



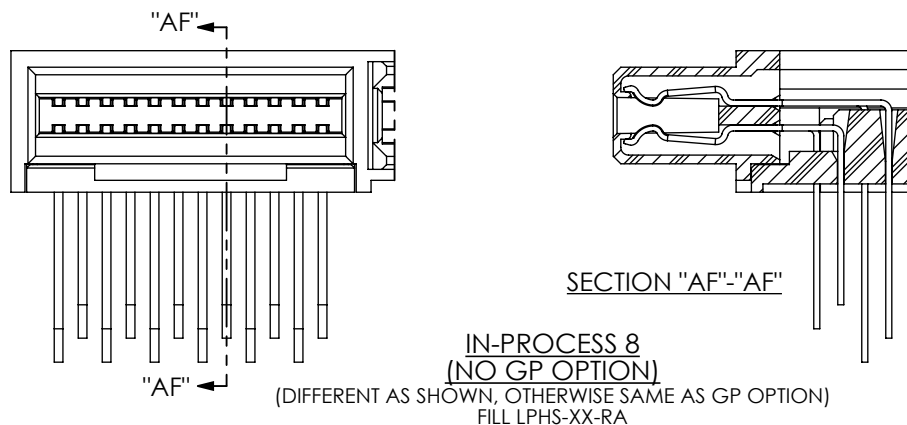
GP OPTION
FORM SIGNAL TOP ROW
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)

IN-PROCESS 7
FORM SIGNAL TOP ROW



IN-PROCESS 8
(GP OPTION)
FILL LPHS-XX-RA

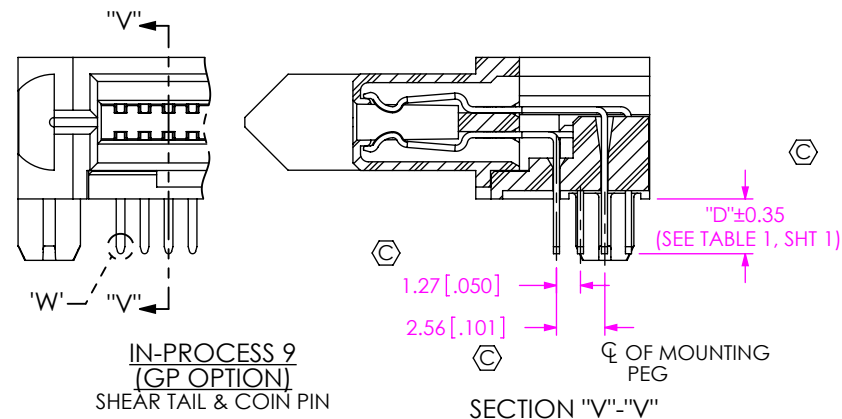
SECTION "Y"-"Y"



SECTION "AF"-"AF"

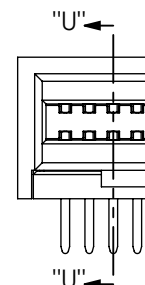
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(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)
FILL LPHS-XX-RA

DETAIL 'W'
SCALE 6:1



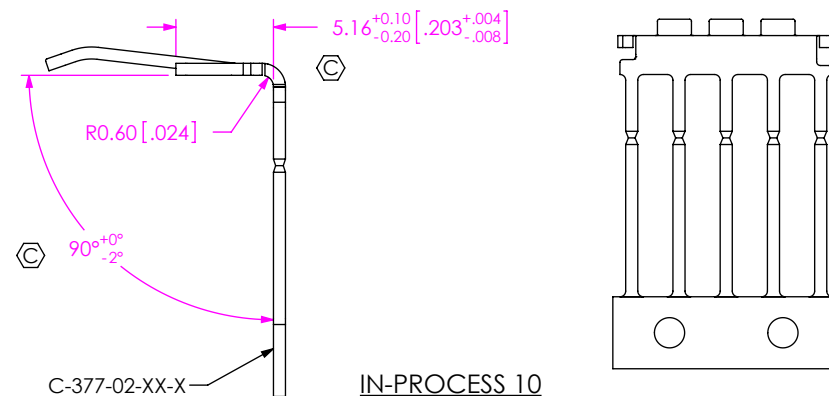
IN-PROCESS 9
(GP OPTION)
SHEAR TAIL & COIN PIN

SECTION "V"-"V"



IN-PROCESS 9
(NO GP OPTION)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)
SHEAR TAIL & COIN PIN

SECTION "U"-"U"



C-377-02-XX-X
IN-PROCESS 10
FORM C-377-02-XX-X

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SHEET SCALE: 2.5:1

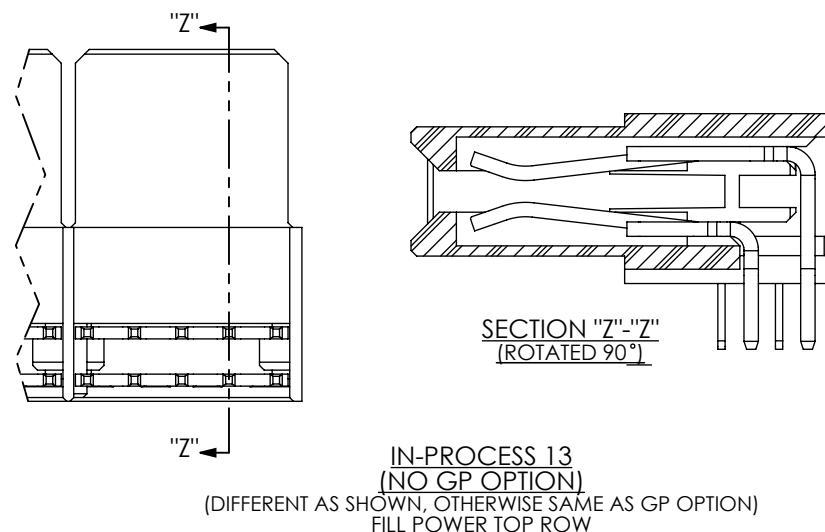
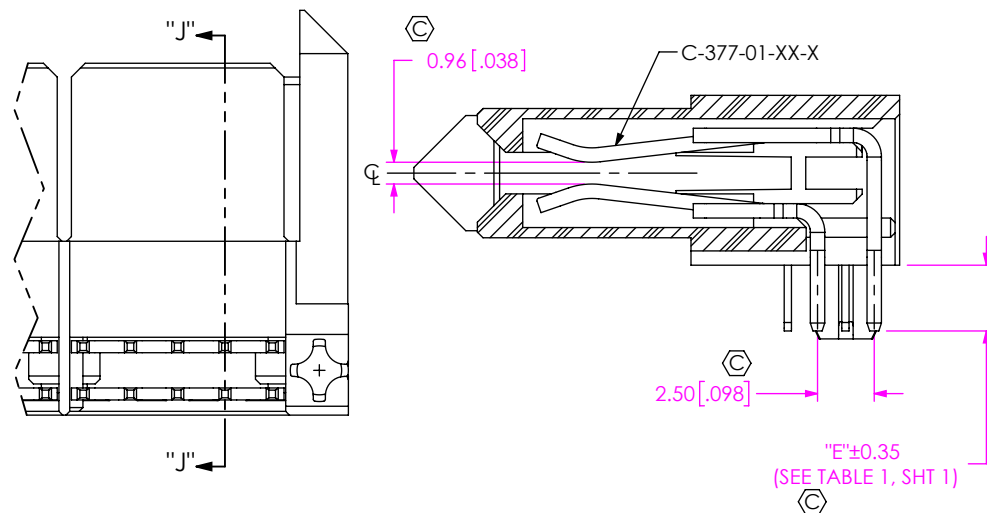
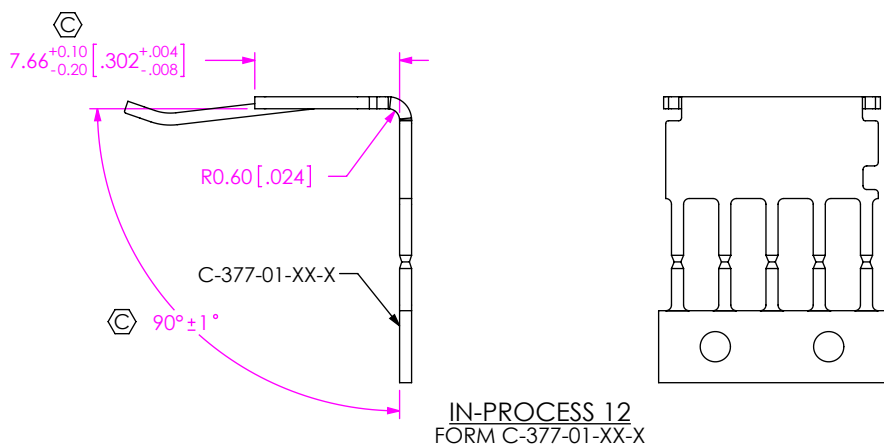
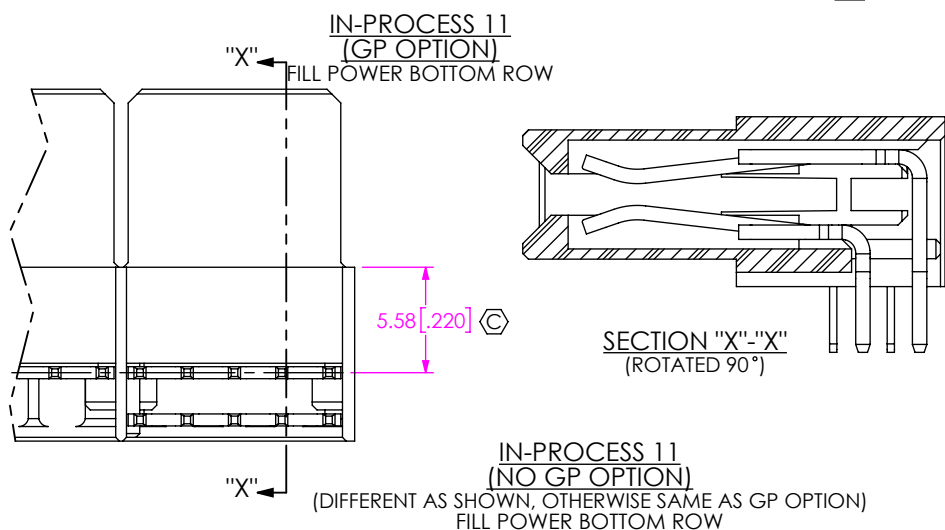
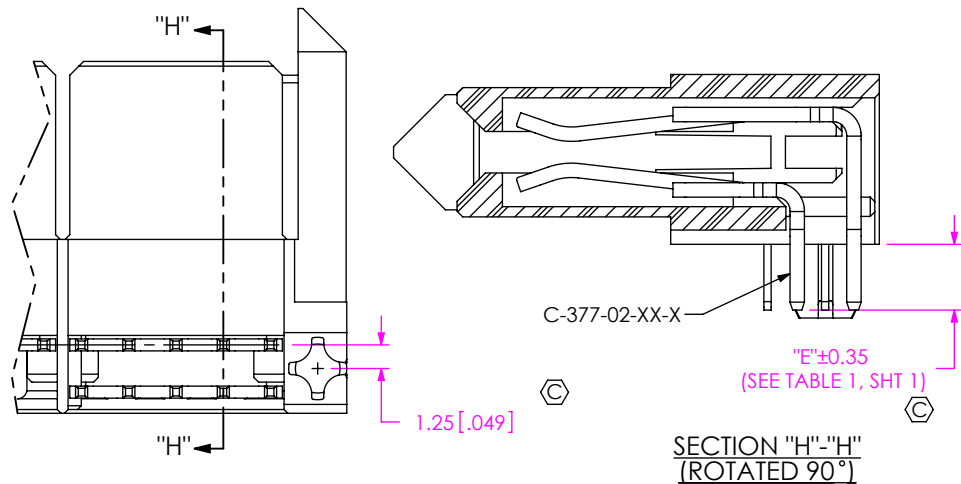
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DESCRIPTION:
LPHS-RA SOCKET ASSEMBLY

DWG. NO.
LPHS-XX-XX-X-RTX-XX

BY: ROY LUO 12/13/2011 SHEET 5 OF 7



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SHEET SCALE: 2.5:1

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: LPHS-RA SOCKETASSEMBLY

DWG. NO. LPHS-XX-XX-X-RTX-XX

BY: ROY LUO 12/13/2011 SHEET 6 OF 7

TABLE 2 SIGNAL/POWER COMBO -A-GP												
	02 POWER POS			04 POWER POS			06 POWER POS			08 POWER POS		
SIGNAL POS	"A"	"B"	"C"	"A"	"B"	"C"	"A"	"B"	"C"	"A"	"B"	"C"
12	29.09 [1.145]	24.60 [0.969]	25.90 [1.020]	41.09 [1.618]	36.60 [1.441]	37.90 [1.492]	53.09 [2.090]	48.60 [1.913]	49.90 [1.965]	65.09 [2.563]	60.60 [2.386]	61.90 [2.437]
16	31.63 [1.245]	27.14 [1.069]	28.44 [1.120]	43.63 [1.718]	39.14 [1.541]	40.44 [1.592]	55.63 [2.190]	51.14 [2.013]	52.44 [2.065]	67.63 [2.663]	63.14 [2.486]	64.44 [2.537]
20	34.17 [1.345]	29.68 [1.169]	30.98 [1.220]	46.17 [1.818]	41.68 [1.641]	42.98 [1.692]	58.17 [2.290]	53.68 [2.113]	54.98 [2.165]	70.17 [2.763]	65.68 [2.586]	66.98 [2.637]
24	36.71 [1.445]	32.22 [1.269]	33.52 [1.320]	48.71 [1.918]	44.22 [1.741]	45.52 [1.792]	60.71 [2.390]	56.22 [2.213]	57.52 [2.265]	72.71 [2.863]	68.22 [2.686]	69.52 [2.737]
28	39.25 [1.545]	34.76 [1.369]	36.06 [1.420]	51.25 [2.018]	46.76 [1.841]	48.06 [1.892]	63.25 [2.490]	58.76 [2.313]	60.06 [2.365]	75.25 [2.963]	70.76 [2.786]	72.06 [2.837]
32	41.79 [1.645]	37.30 [1.469]	38.60 [1.520]	53.79 [2.118]	49.30 [1.941]	50.60 [1.992]	65.79 [2.590]	61.30 [2.413]	62.60 [2.465]	77.79 [3.063]	73.30 [2.886]	74.60 [2.937]
36	44.33 [1.745]	39.84 [1.569]	41.14 [1.620]	56.33 [2.218]	51.84 [2.041]	53.14 [2.092]	68.33 [2.690]	63.84 [2.513]	65.14 [2.565]	80.33 [3.163]	75.84 [2.986]	77.14 [3.037]
40	46.87 [1.845]	42.38 [1.669]	43.68 [1.720]	58.87 [2.318]	54.38 [2.141]	55.68 [2.192]	70.87 [2.790]	66.38 [2.613]	67.68 [2.665]	82.87 [3.263]	78.38 [3.086]	79.68 [3.137]

TABLE 2 SIGNAL/POWER COMBO -A-GP CONTINUED									
	10 POWER POS			12 POWER POS			14 POWER		
SIGNAL POS	"A"	"B"	"C"	"A"	"B"	"C"	"A"	"B"	"C"
12	77.09 [3.035]	72.60 [2.858]	73.90 [2.909]	89.09 [3.507]	84.60 [3.331]	85.90 [3.382]	101.09 [3.980]	96.60 [3.803]	97.90 [3.854]
16	79.63 [3.135]	75.14 [2.958]	76.44 [3.009]	91.63 [3.607]	87.14 [3.431]	88.44 [3.482]	103.63 [4.080]	99.14 [3.903]	100.44 [3.954]
20	82.17 [3.235]	77.68 [3.058]	78.98 [3.109]	94.17 [3.707]	89.68 [3.531]	90.98 [3.582]	106.17 [4.180]	101.68 [4.003]	102.98 [4.054]
24	84.71 [3.335]	80.22 [3.158]	81.52 [3.209]	96.71 [3.807]	92.22 [3.631]	93.52 [3.682]	108.71 [4.280]	104.22 [4.103]	105.52 [4.154]
28	87.25 [3.435]	82.76 [3.258]	84.06 [3.309]	99.25 [3.907]	94.76 [3.731]	96.06 [3.782]	111.25 [4.380]	106.76 [4.203]	108.06 [4.254]
32	89.79 [3.535]	85.30 [3.358]	86.60 [3.409]	101.79 [4.007]	97.30 [3.831]	98.60 [3.882]	113.79 [4.480]	109.30 [4.303]	110.60 [4.354]
36	92.33 [3.635]	87.84 [3.458]	89.14 [3.509]	104.33 [4.107]	99.84 [3.931]	101.14 [3.982]	116.33 [4.580]	111.84 [4.403]	113.14 [4.454]
40	94.87 [3.735]	90.38 [3.558]	91.68 [3.609]	106.87 [4.207]	102.38 [4.031]	103.68 [4.082]	118.87 [4.680]	114.38 [4.503]	115.68 [4.554]

TABLE 3 SIGNAL/POWER COMBO (NO -GP OPTIONS NOT RELEASED)							
	02 POWER	04 POWER	06 POWER	08 POWER	10 POWER	12 POWER	14 POWER
SIGNAL POS	"A"	"A"	"A"	"A"	"A"	"A"	"A"
12	23.42 [0.922]	35.42 [1.394]	47.42 [1.867]	59.42 [2.339]	71.42 [2.812]	83.42 [3.284]	95.42 [3.757]
16	25.96 [1.022]	37.96 [1.494]	49.96 [1.967]	61.96 [2.439]	73.96 [2.912]	85.96 [3.384]	97.96 [3.857]
20	28.50 [1.122]	40.50 [1.594]	52.50 [2.067]	64.50 [2.539]	76.50 [3.012]	88.50 [3.484]	100.50 [3.957]
24	31.04 [1.222]	43.04 [1.694]	55.04 [2.167]	67.04 [2.639]	79.04 [3.112]	91.04 [3.584]	103.04 [4.057]
28	33.58 [1.322]	45.58 [1.794]	57.58 [2.267]	69.58 [2.739]	81.58 [3.212]	93.58 [3.684]	105.58 [4.157]
32	36.12 [1.422]	48.12 [1.894]	60.12 [2.367]	72.12 [2.839]	84.12 [3.312]	96.12 [3.784]	108.12 [4.257]
36	38.66 [1.522]	50.66 [1.994]	62.66 [2.467]	74.66 [2.939]	86.66 [3.412]	98.66 [3.884]	110.66 [4.357]
40	41.20 [1.622]	53.20 [2.094]	65.20 [2.567]	77.20 [3.039]	89.20 [3.512]	101.20 [3.984]	113.20 [4.457]

TABLE 4		
SIGNAL POS	"F"	"G"
12	6.35 [0.250]	6.35 [0.250]
16	8.89 [0.350]	8.89 [0.350]
20	11.43 [0.450]	11.43 [0.450]
24	13.97 [0.550]	13.97 [0.550]
28	16.51 [0.650]	16.51 [0.650]
32	19.05 [0.750]	19.05 [0.750]
36	21.59 [0.850]	21.59 [0.850]
40	24.13 [0.950]	24.13 [0.950]

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DO NOT SCALE DRAWING

SHEET SCALE: 2:1



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DESCRIPTION: LPHS-RA SOCKETASSEMBLY

DWG. NO. LPHS-XX-XX-X-RTX-XX

BY: ROY LUO 12/13/2011 SHEET 7 OF 7