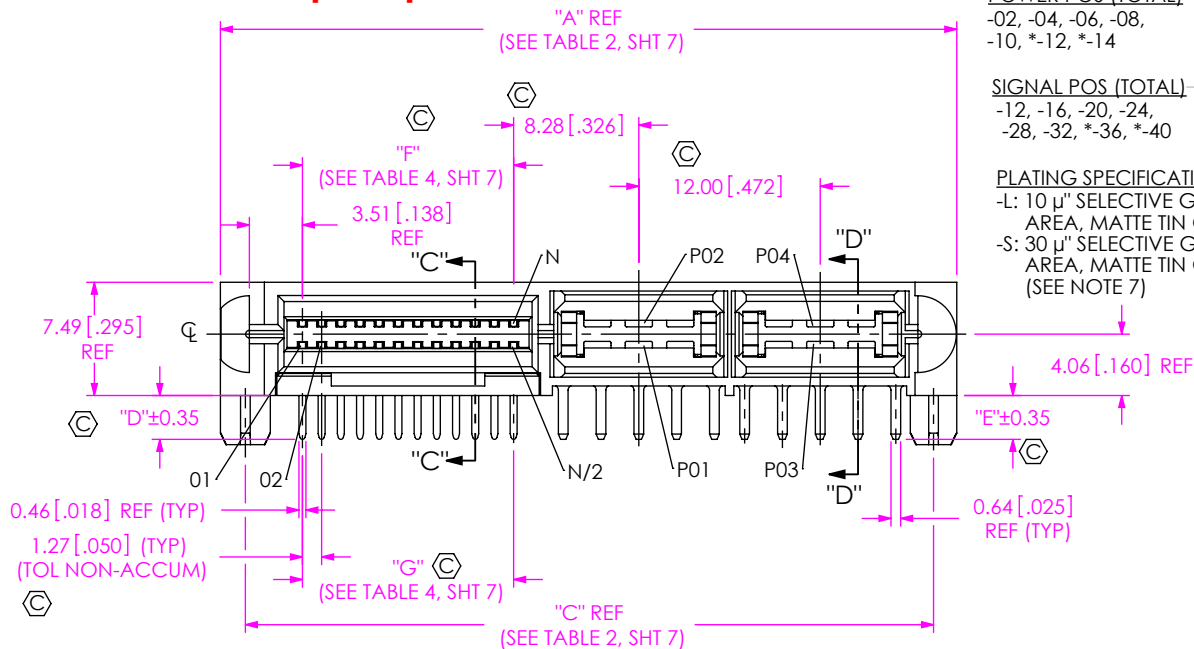


DO NOT SCALE FROM THIS PRINT

**DESIGNED & DIMENSIONED IN MILLIMETERS [INCHES]**

**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)

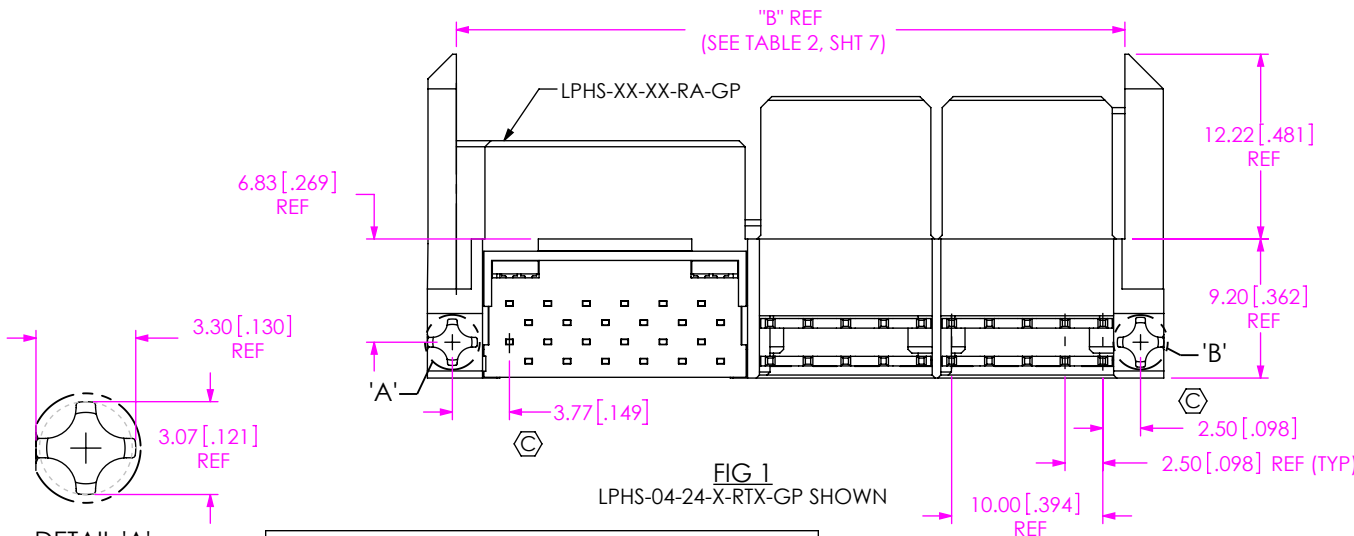
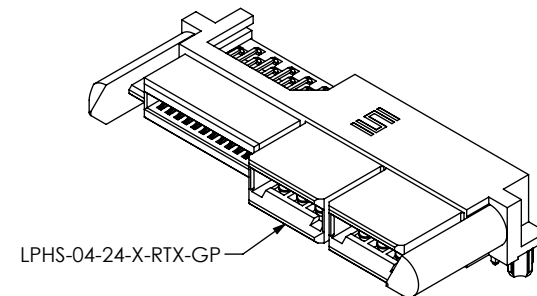
**OPTIONS**

-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)



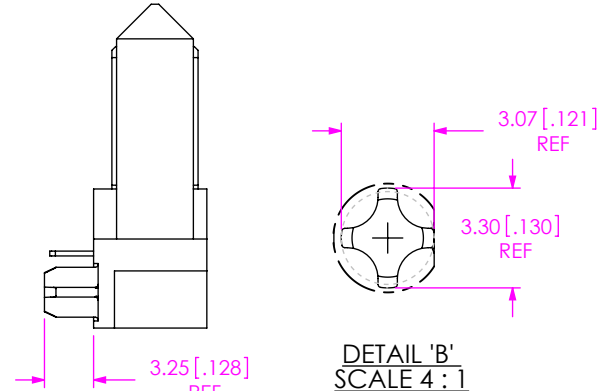
DETAIL 'A' SCALE 4:1

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

TABLE 1				
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:**

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



DETAIL 'B' SCALE 4:1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:

DECIMALS ANGLES  
 X.X: ±0.3 [.01] 2°  
 X.XX: ±0.13 [.005]  
 X.XXX: ±0.051 [.0020]

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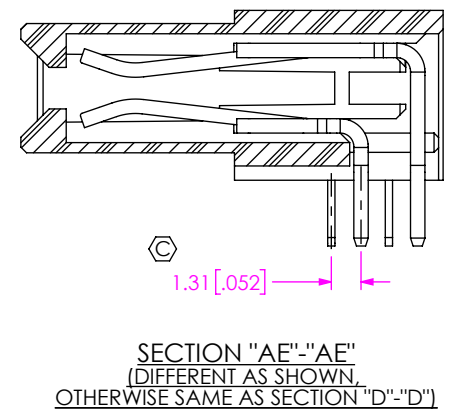
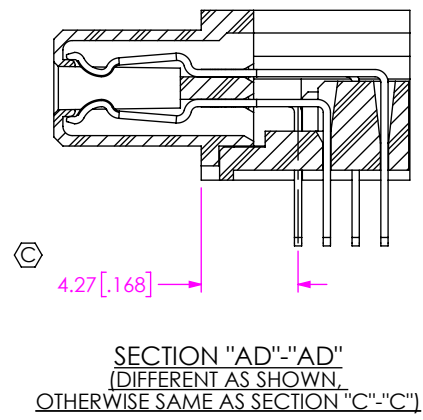
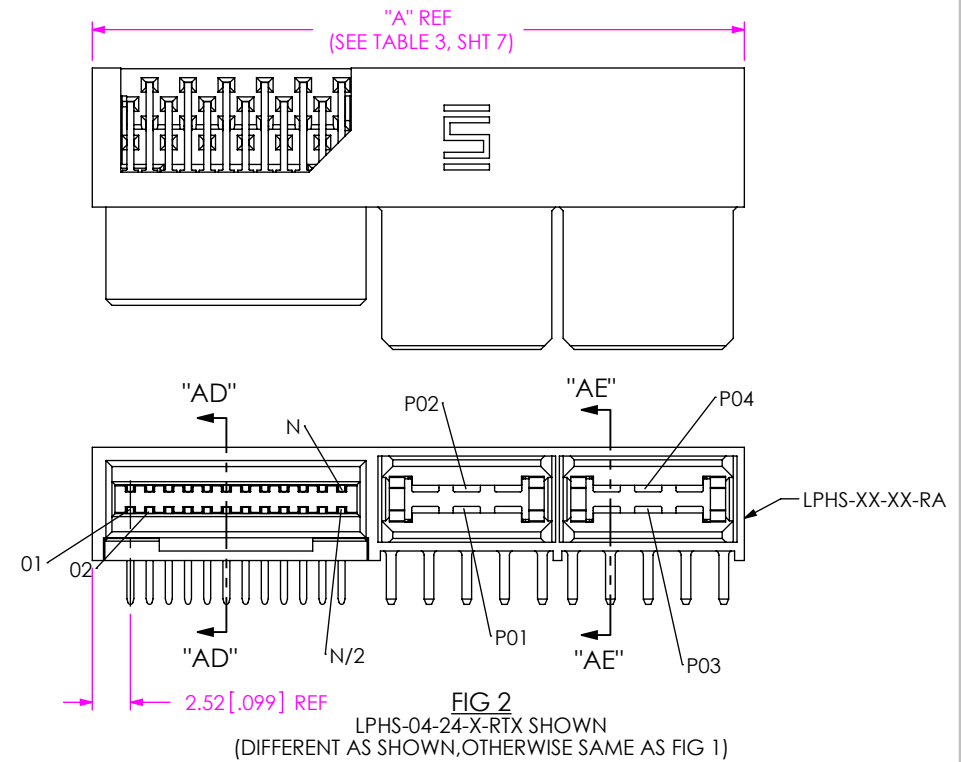
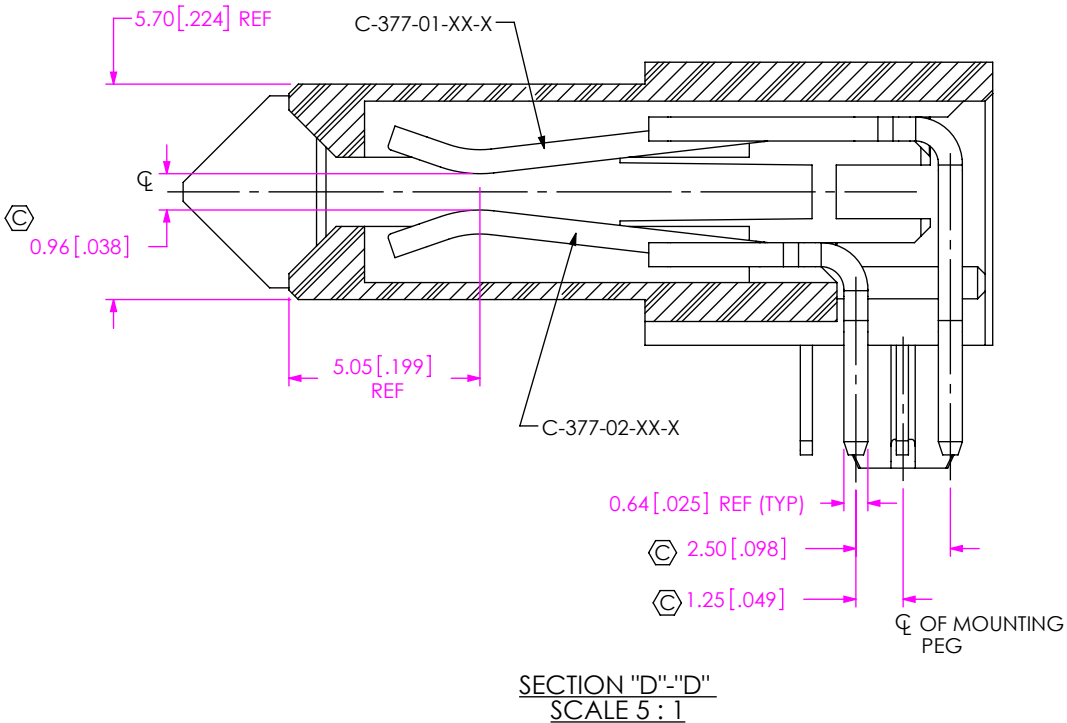
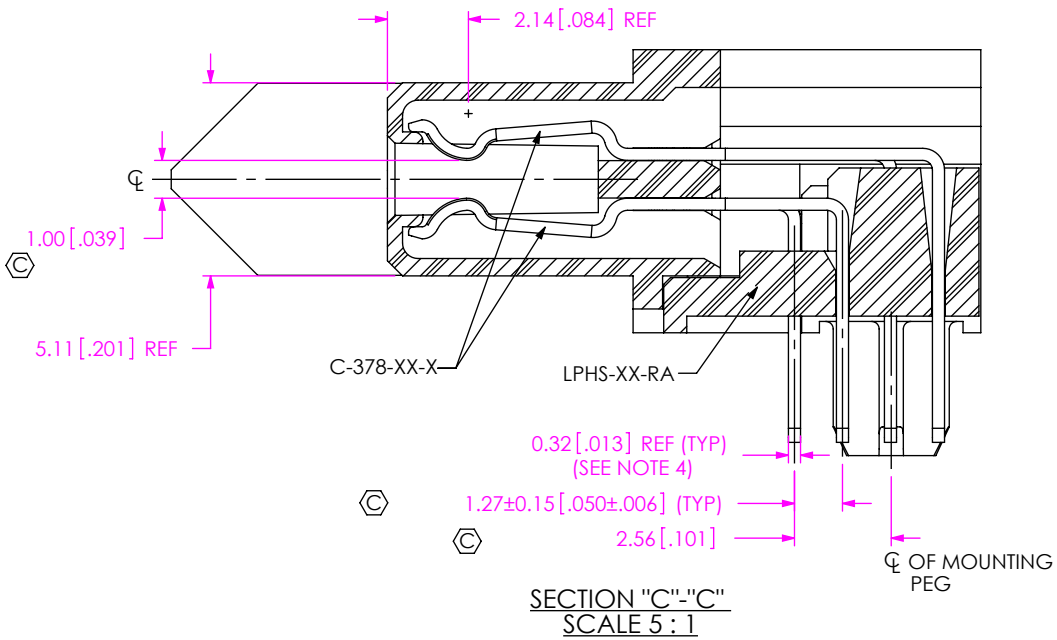
MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1

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



520 PARK EAST BLVD, NEW ALBANY, IN 47150  
 PHONE: 812-944-6733 FAX: 812-948-5047  
 e-Mail: info@SAMTEC.com code 53322

DESCRIPTION:	LPHS-RA SOCKET ASSEMBLY
DWG. NO.	LPHS-XX-XX-X-RTX-XX
BY:	ROY LUO 12/13/2011 SHEET 1 OF 7

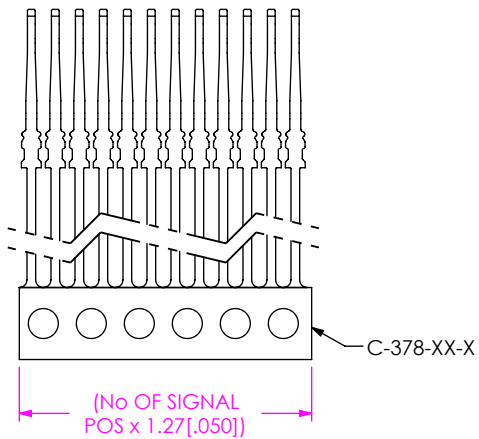


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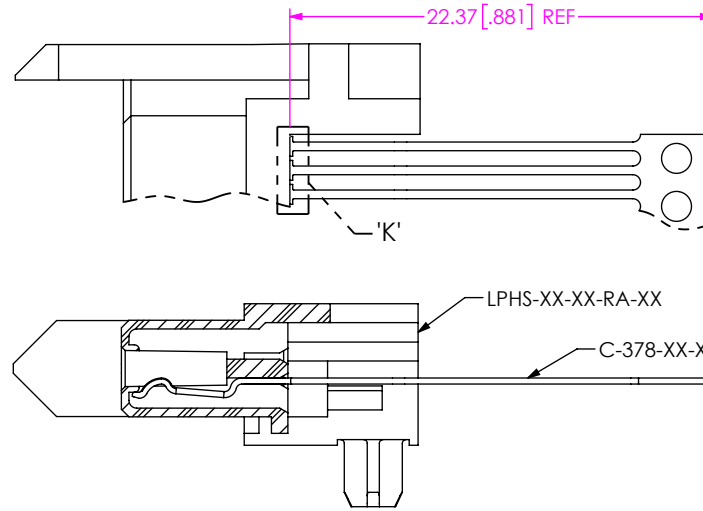
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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:	LPHS-RA SOCKETASSEMBLY
DWG. NO.	LPHS-XX-XX-X-RTX-XX
BY: ROY LUO	12/13/2011 SHEET 2 OF 7

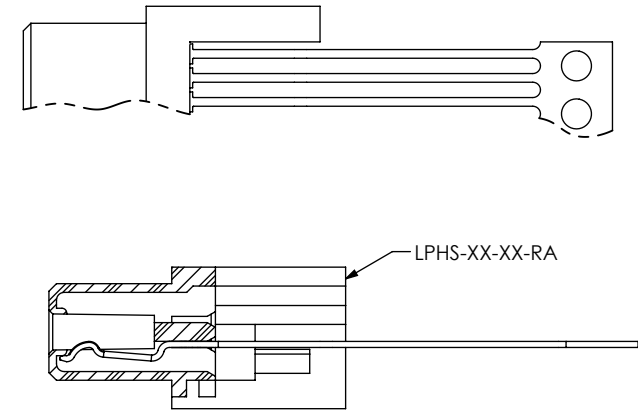


**IN-PROCESS 1**  
CUT COMB & REMOVE TIE BARS FOR C-378-XX-X

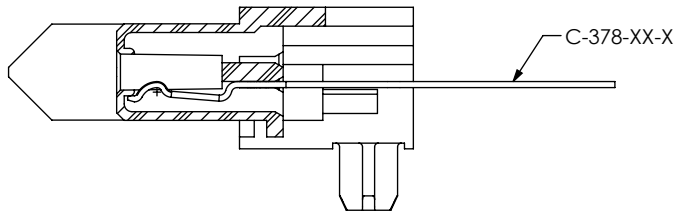
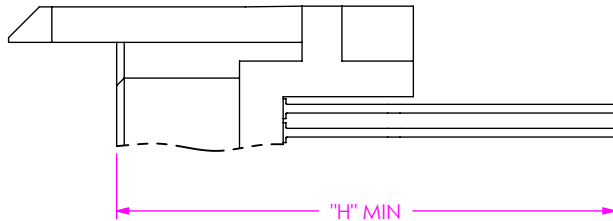


**GP OPTION**

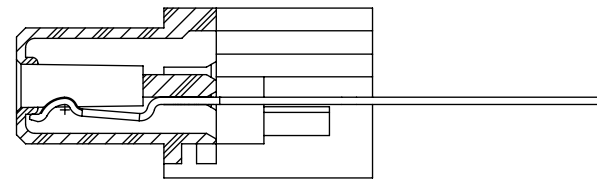
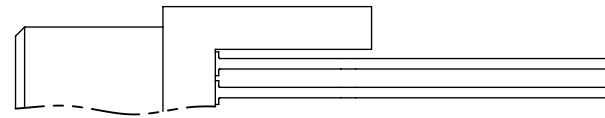
**IN-PROCESS 2**  
FILL SIGNAL BOTTOM ROW



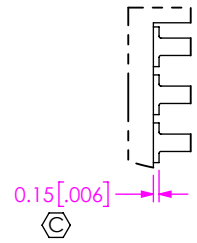
**NO GP OPTION**  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)



**GP OPTION**



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



**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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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 3 OF 7

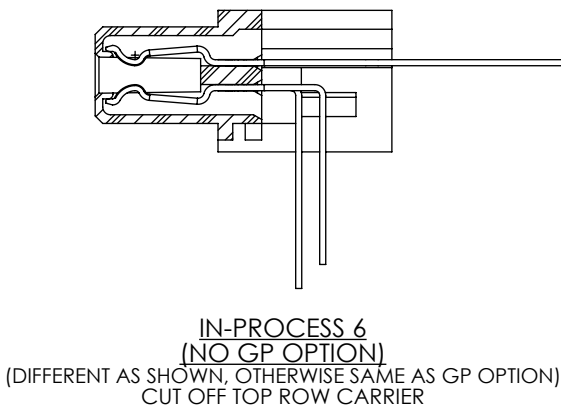
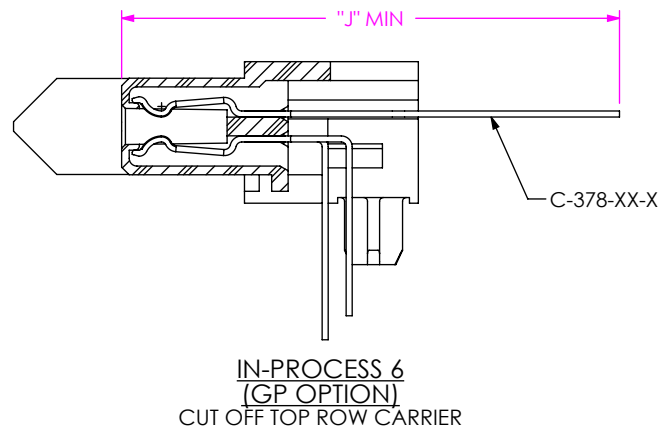
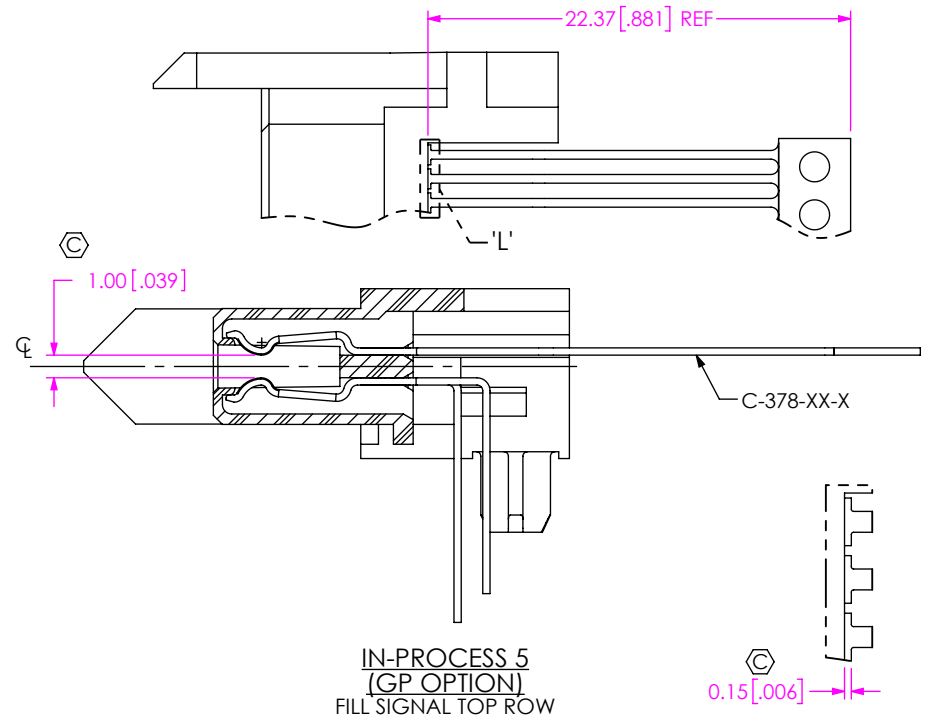
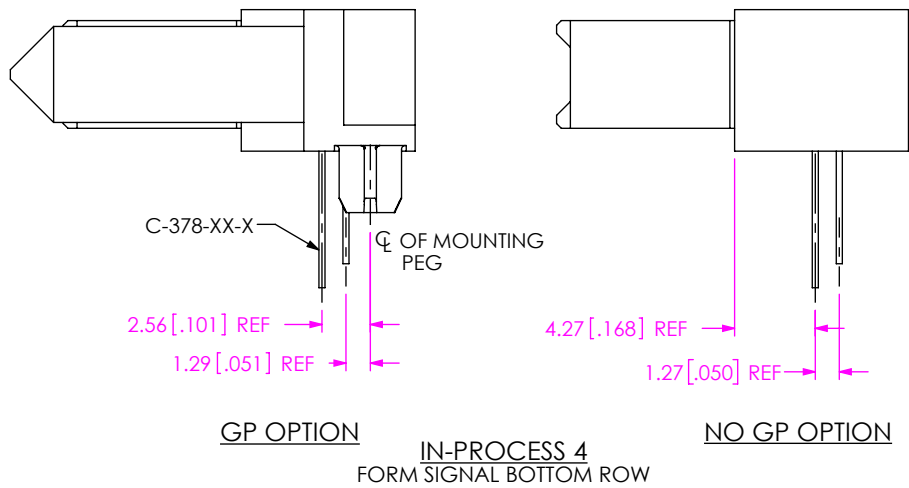
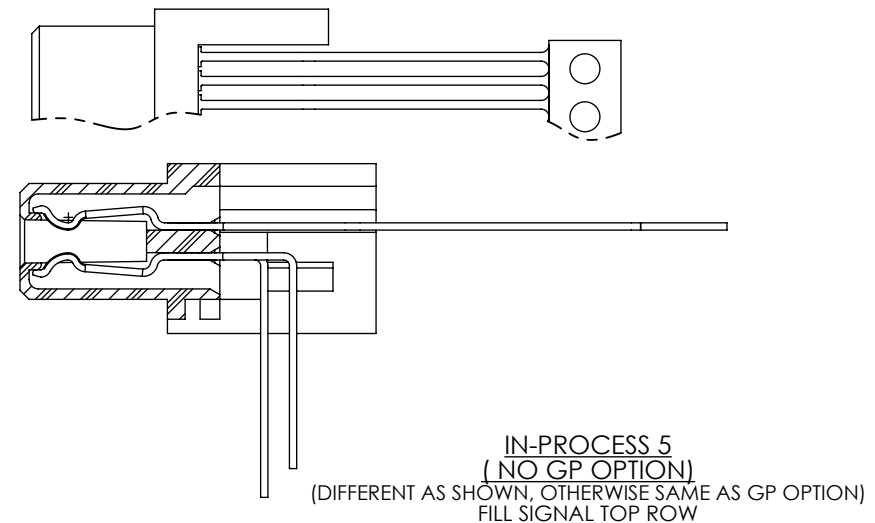


TABLE 6	
TAIL	"J"
-RT1	23.22 [.914]
-RT2	23.92 [.942]



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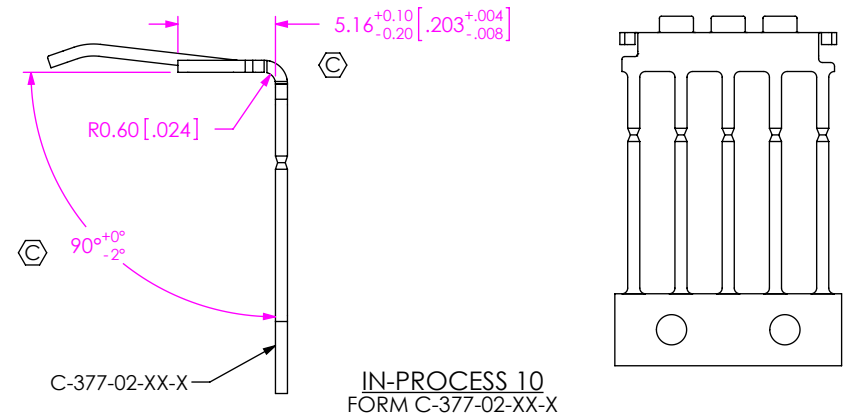
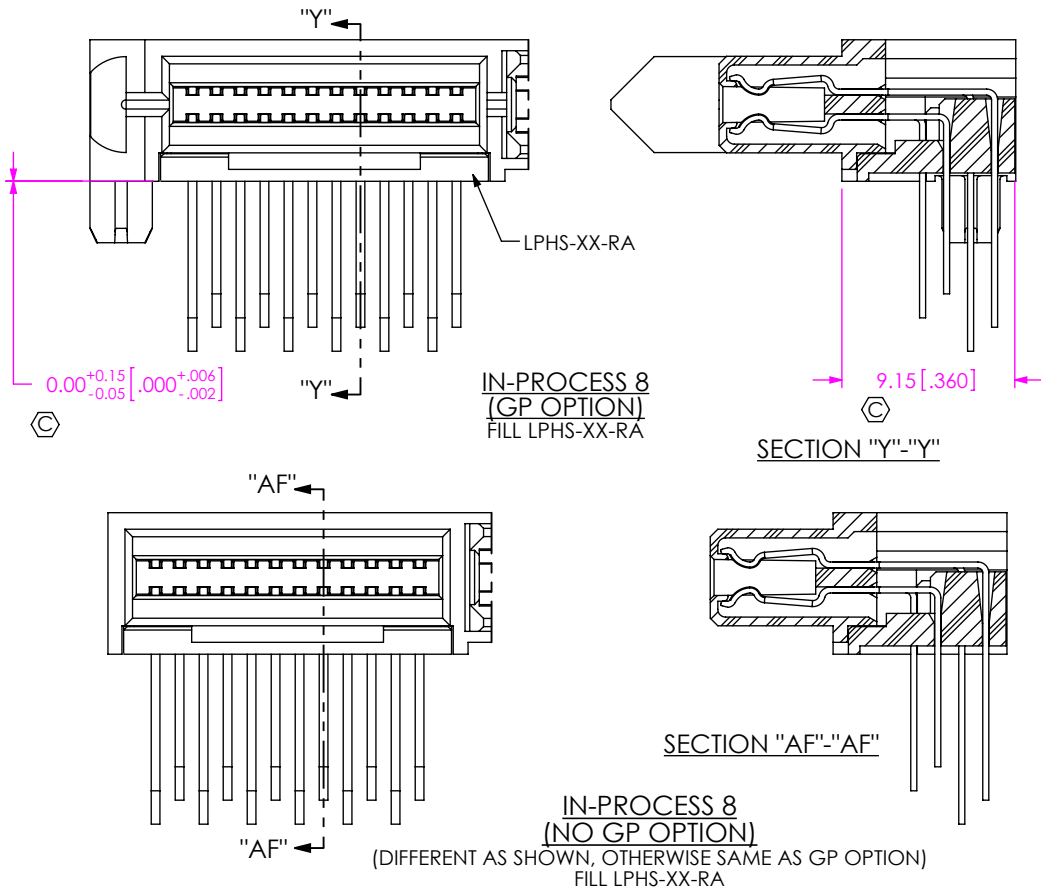
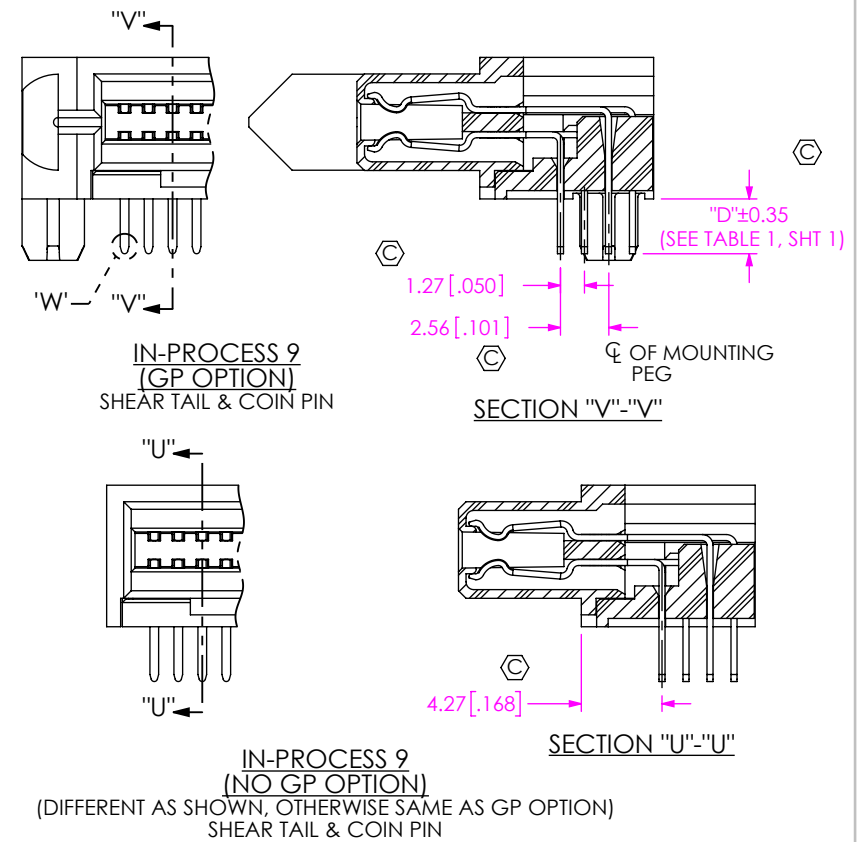
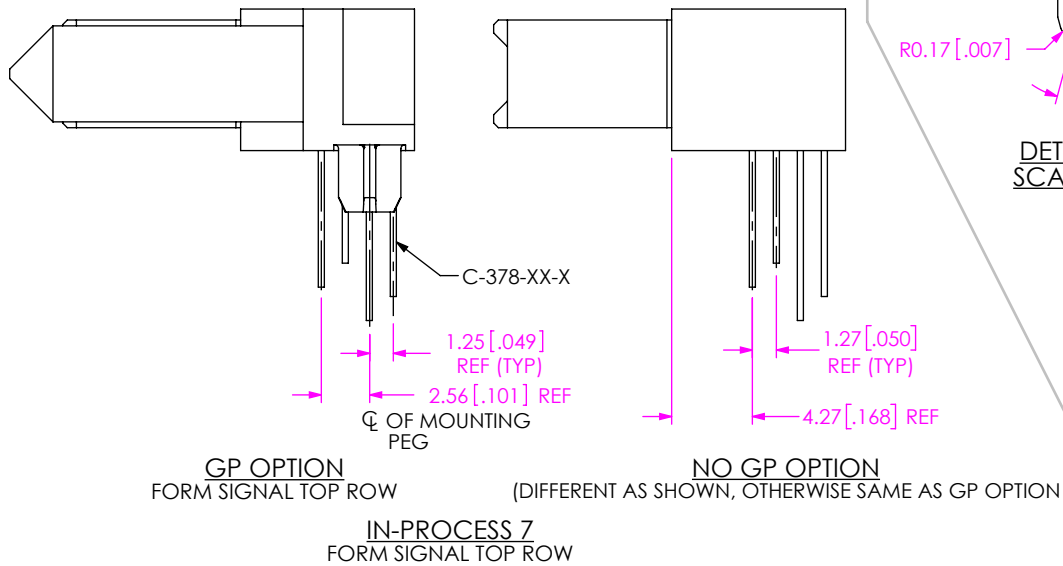
SHEET SCALE: 2.5:1

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 PHONE: 812-944-6733 FAX: 812-948-5047  
 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 4 OF 7

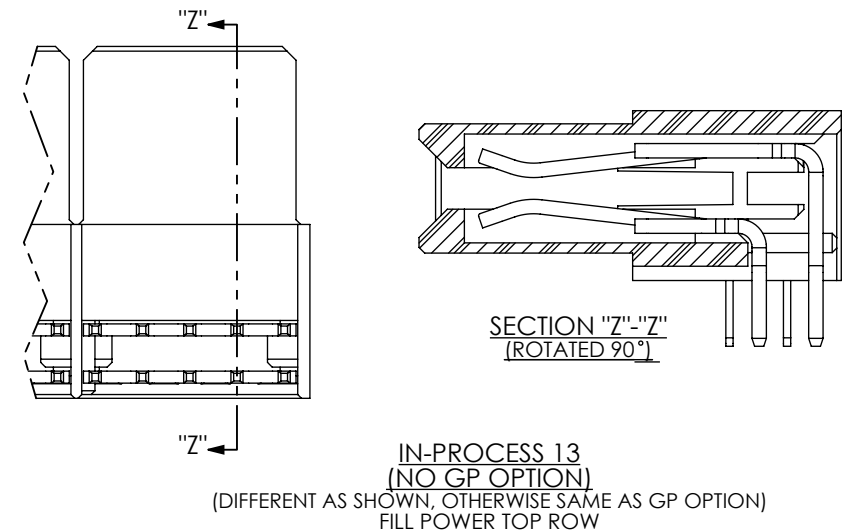
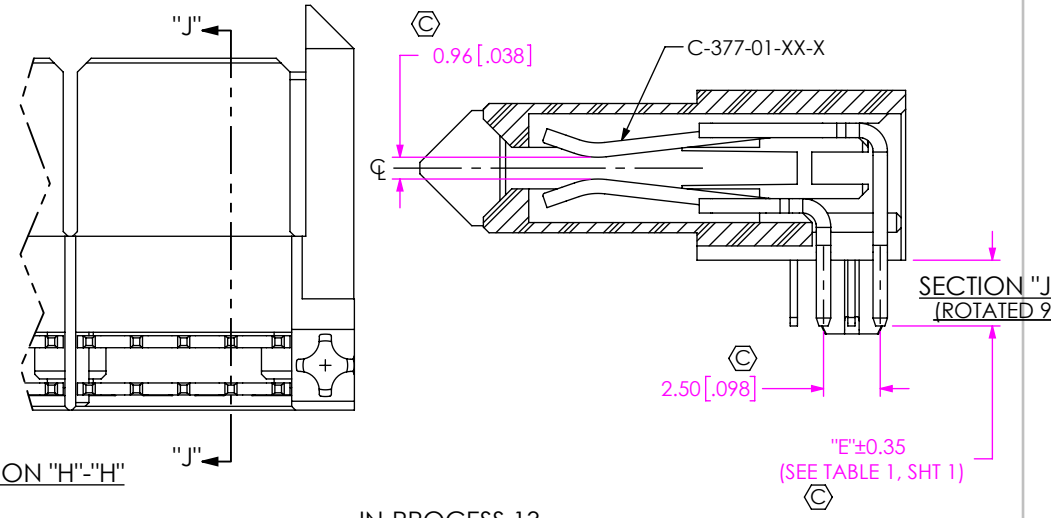
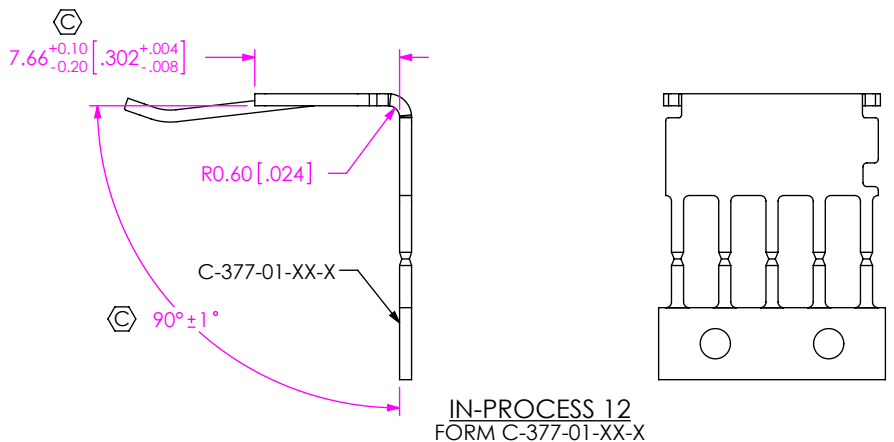
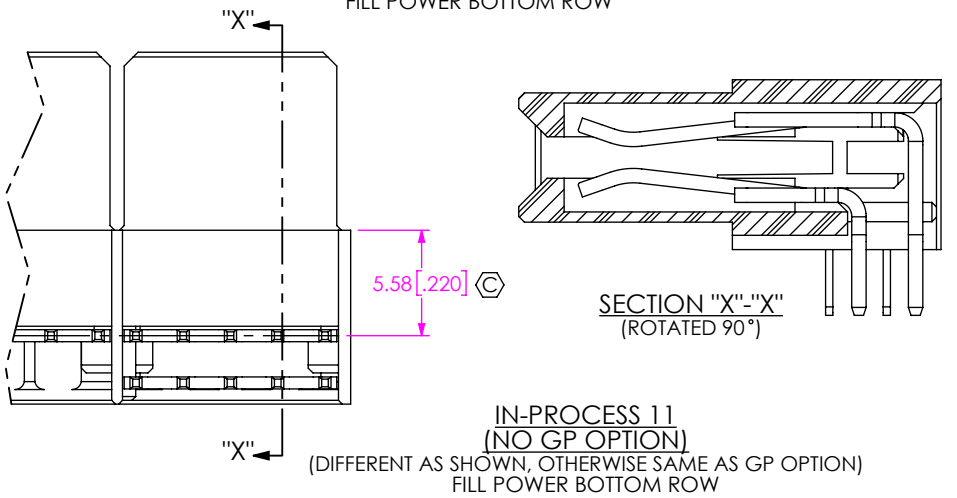
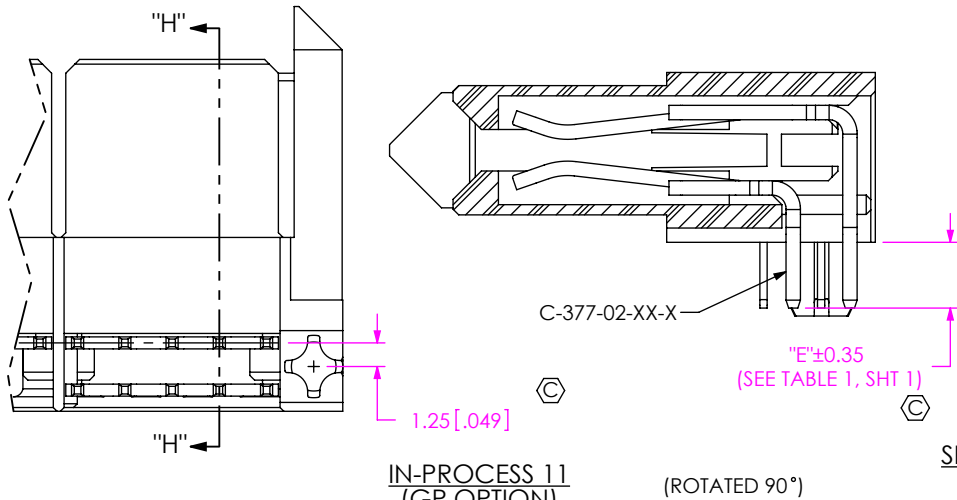


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BY: ROY LUO 12/13/2011 SHEET 5 OF 7



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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**

SIGNAL POS	02 POWER POS			04 POWER POS			06 POWER POS			08 POWER 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**

SIGNAL POS	10 POWER POS			12 POWER POS			14 POWER		
	"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**

SIGNAL POS	02 POWER	04 POWER	06 POWER	08 POWER	10 POWER	12 POWER	14 POWER
	"A"	"A"	"A"	"A"	"A"	"A"	"A"
12	23.51 [0.926]	35.51 [1.398]	47.51 [1.870]	59.51 [2.343]	71.51 [2.815]	83.51 [3.288]	95.51 [3.760]
16	26.05 [1.026]	38.05 [1.498]	50.05 [1.970]	62.05 [2.443]	74.05 [2.915]	86.05 [3.388]	98.05 [3.860]
20	28.59 [1.126]	40.59 [1.598]	52.59 [2.070]	64.59 [2.543]	76.59 [3.015]	88.59 [3.488]	100.59 [3.960]
24	31.13 [1.226]	43.13 [1.698]	55.13 [2.170]	67.13 [2.643]	79.13 [3.115]	91.13 [3.588]	103.13 [4.060]
28	33.67 [1.326]	45.67 [1.798]	57.67 [2.270]	69.67 [2.743]	81.67 [3.215]	93.67 [3.688]	105.67 [4.160]
32	36.21 [1.426]	48.21 [1.898]	60.21 [2.370]	72.21 [2.843]	84.21 [3.315]	96.21 [3.788]	108.21 [4.260]
36	38.75 [1.526]	50.75 [1.998]	62.75 [2.470]	74.75 [2.943]	86.75 [3.415]	98.75 [3.888]	110.75 [4.360]
40	41.29 [1.626]	53.29 [2.098]	65.29 [2.570]	77.29 [3.043]	89.29 [3.515]	101.29 [3.988]	113.29 [4.460]

**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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SHEET SCALE: 2:1



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

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