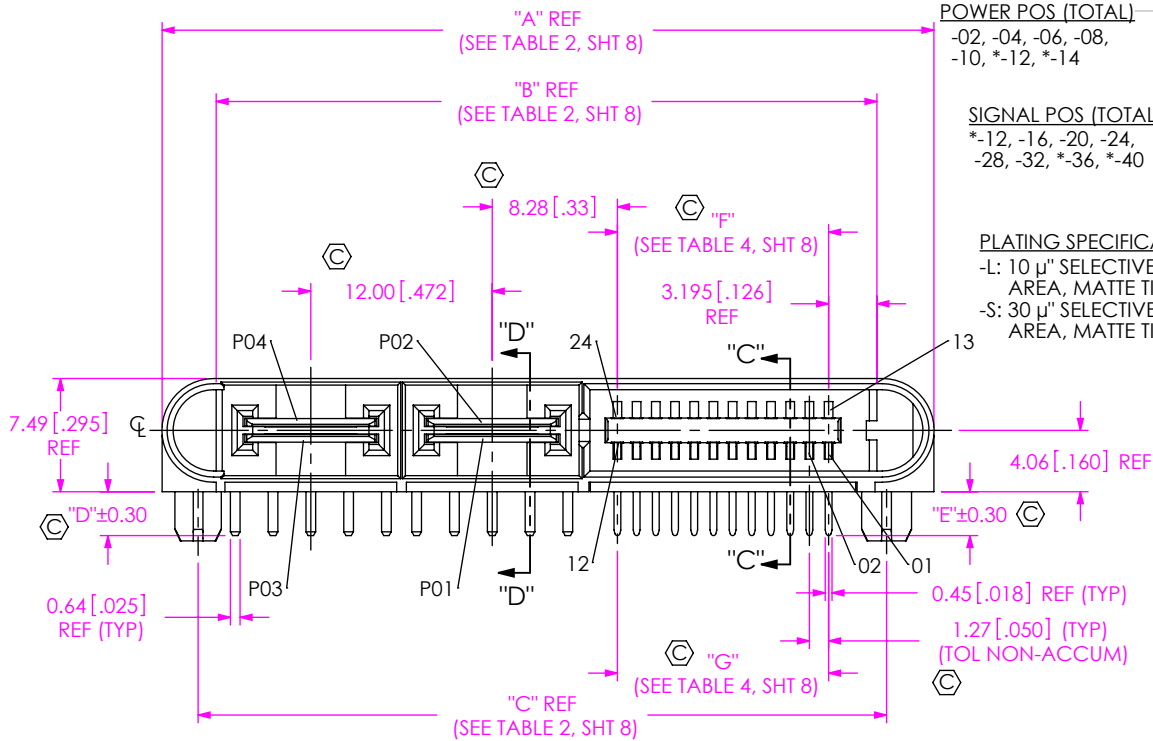


DO NOT
SCALE FROM
THIS PRINTDESIGNED & DIMENSIONED
IN MILLIMETERS [INCHES]

LPHT-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

OPTIONS

-GP: GUIDE POSTS
 (LEAVE BLANK FOR NO -GP OPTION)
 -BLANK: NO GP OPTION
 *-HS: HOT SWAP
 (ONE BANK OF OUTER POWER POS ARE LONG PINS, POWER PIN ONLY)
 (NOT AVAILABLE ON -02 POWER POS)
 (LEAVE BLANK FOR NO HOT SWAP)

TAIL

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

(* = NOT TOOLED)

LPHT-04-24-X-RTX-GP

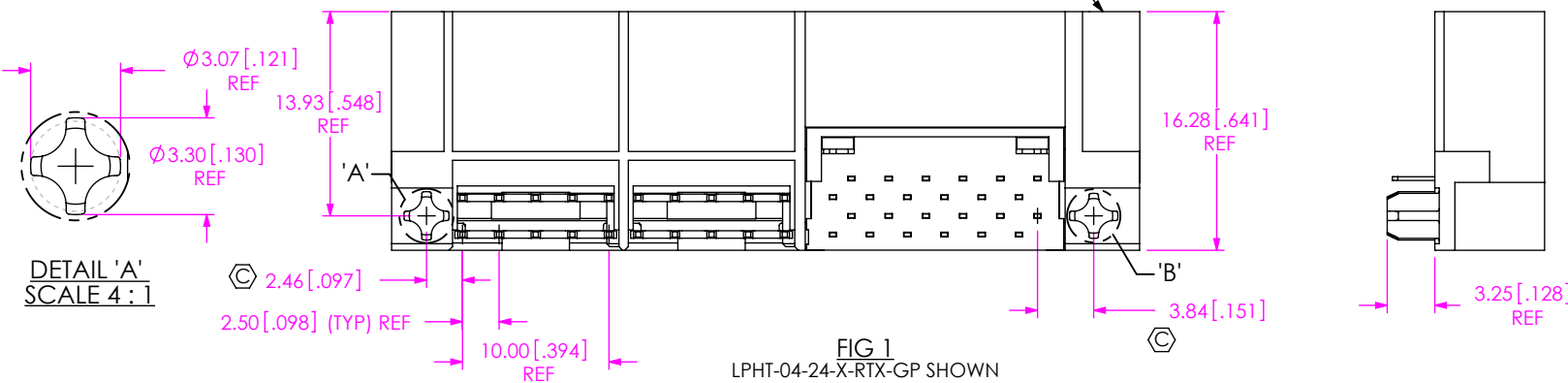
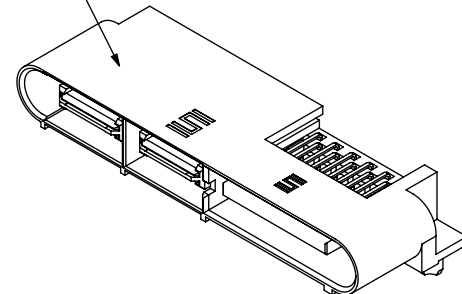
FIG 1
LPHT-04-24-X-RTX-GP SHOWN

TABLE 1

TAIL	ROW 1 POWER	ROW 2 POWER	"D"	"E"
-RT1	T-1M110-02-01-X-ST	T-1M110-01-01-X-ST	2.90 [.114]	2.90 [.114]
-RT2	T-1M110-02-02-X-ST	T-1M110-01-02-X-ST	3.60 [.142]	3.60 [.142]

NOTES:

1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSHOUT FORCE: SIGNAL PIN: 0.5 LBS, POWER PIN: 3.0 LBS.
3. MAXIMUM ALLOWABLE BOW: 0.15 [.006] MM/MM AFTER ASSEMBLY.
4. MAXIMUM BURR ON SHEARED TAILS: 0.10 [.004].
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.

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:

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

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

MATERIAL: DO NOT SCALE DRAWING
 INSULATORS: LCP, COLOR: BLACK
 SIGNAL TERMINAL: BRASS
 POWER TERMINAL: COPPER ALLOY

SHEET SCALE: 2:1

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

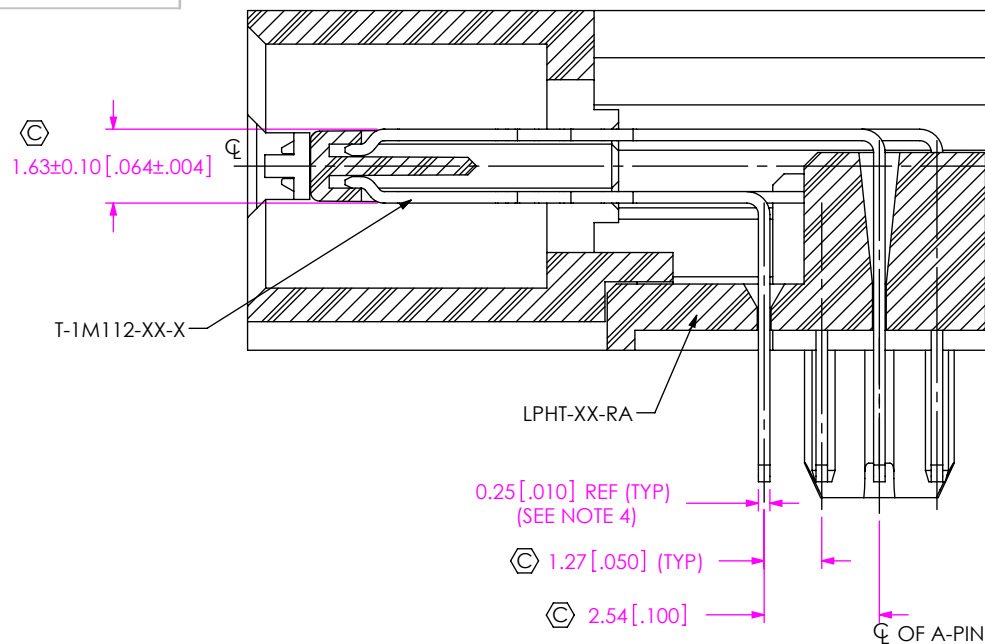
DESCRIPTION:

LPHT-RA TERMINAL ASSEMBLY

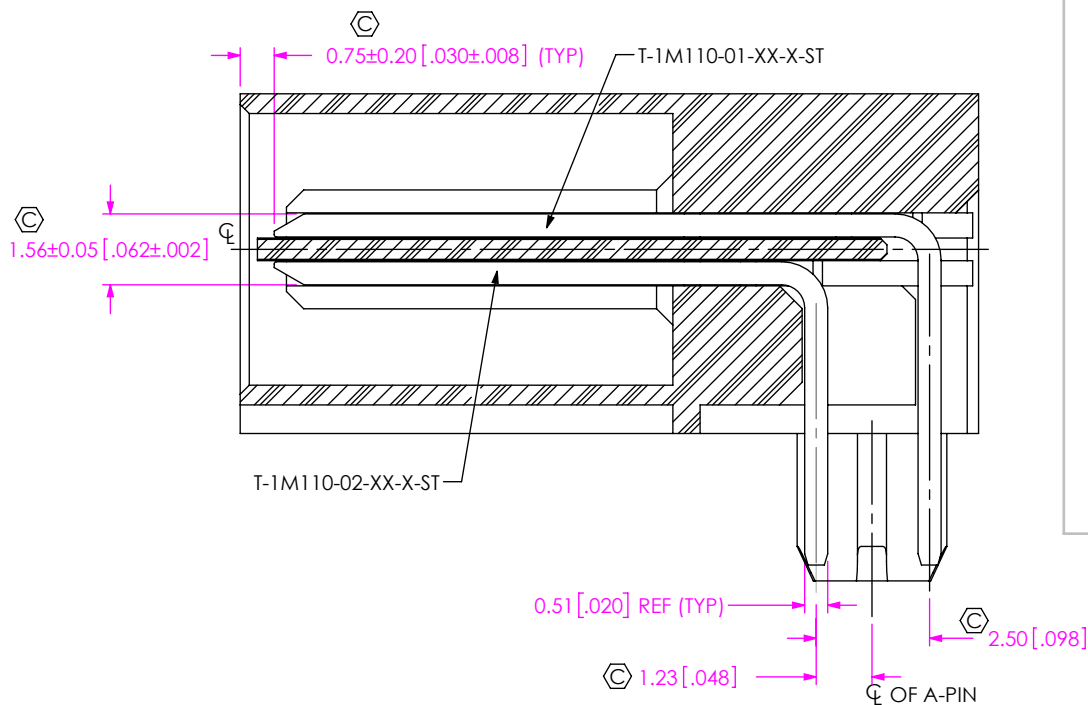
DWG. NO.

LPHT-XX-XX-X-RTX-XX

BY: ROY LUO 11/28/2011 SHEET 1 OF 8



SECTION "C"-"C"
SCALE 6:1



SECTION "D"-"D"
SCALE 6:1

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

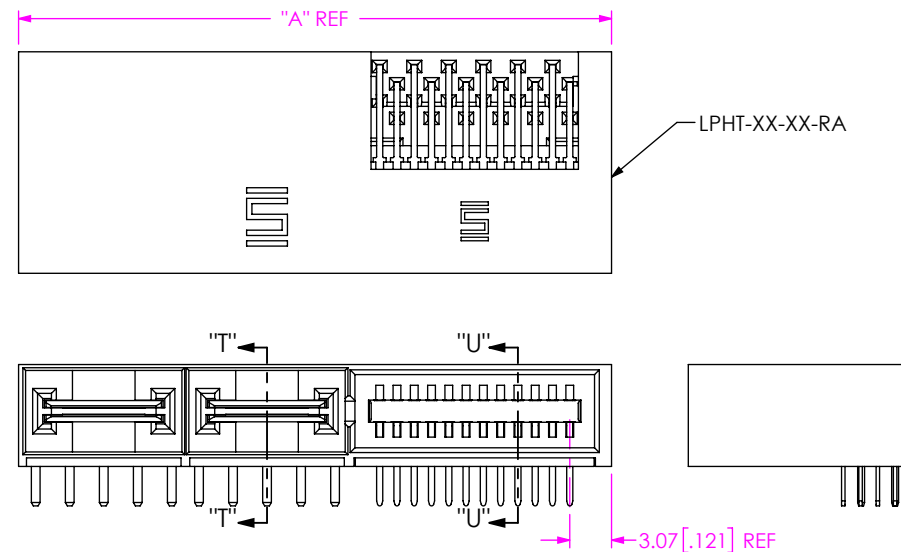
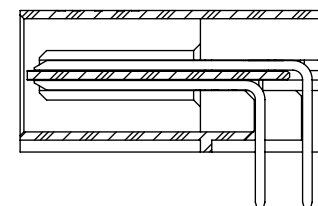
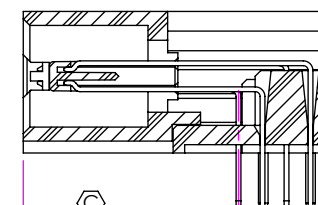


FIG 2
LPHT-04-24-X-RTX SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)



SECTION "T"-"T"
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS SECTION "D"-"D")



SECTION "U"-"U"
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS SECTION "C"-"C")

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 1.5:1

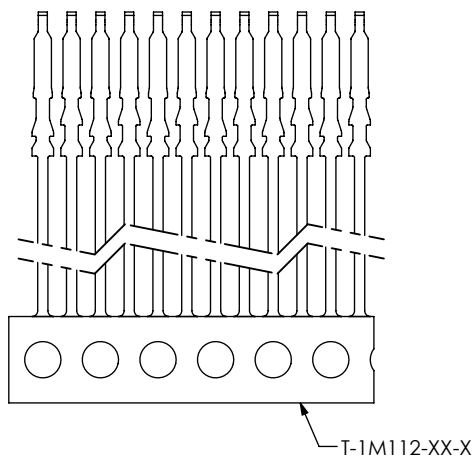
samtec

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

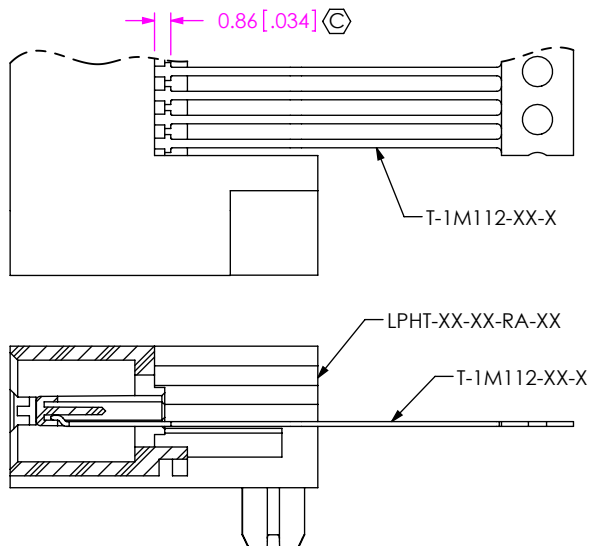
DESCRIPTION:
LPHT-RA TERMINAL ASSEMBLY

DWG. NO.
LPHT-XX-XX-X-RTX-XX

BY: ROY LUO 11/28/2011 SHEET 2 OF 8

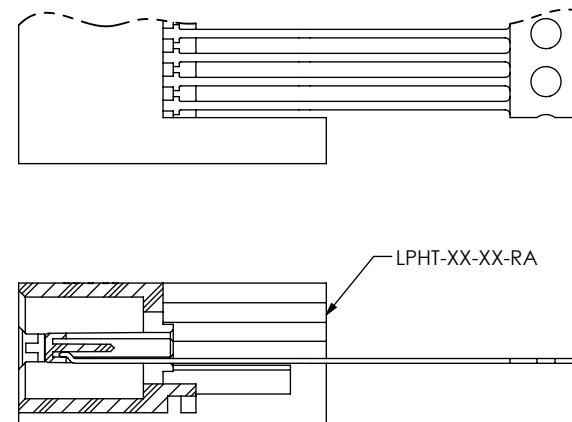


IN-PROCESS 1
REMOVE TIE BARS FOR T-1M112-XX-X



GP OPTION

IN-PROCESS 2
FILL SIGNAL BOTTOM ROW



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

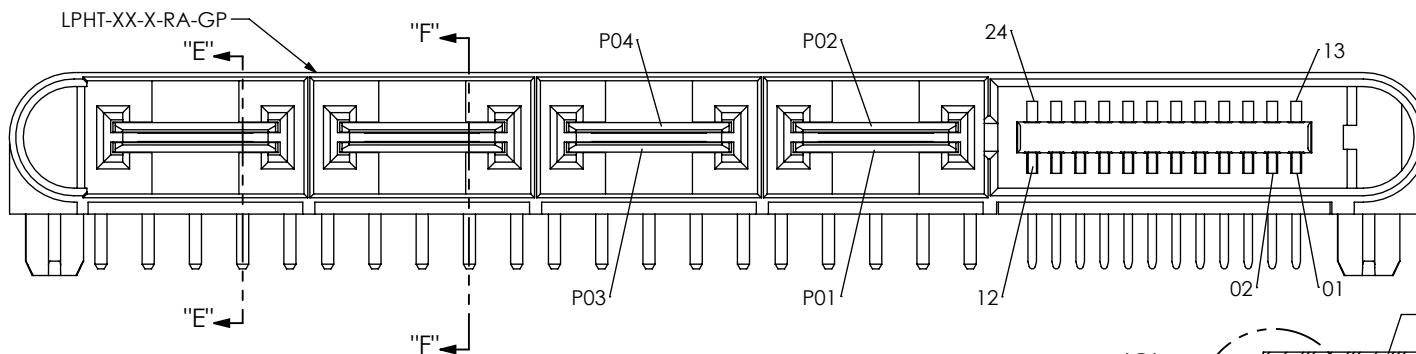
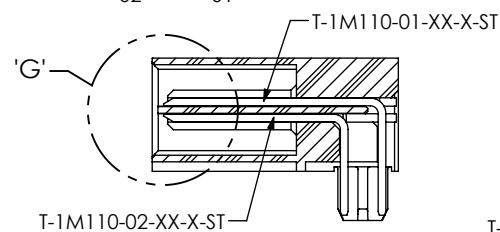
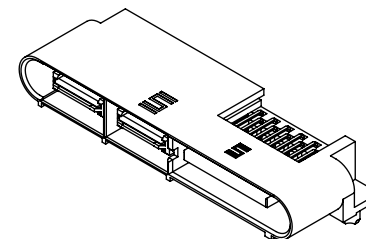
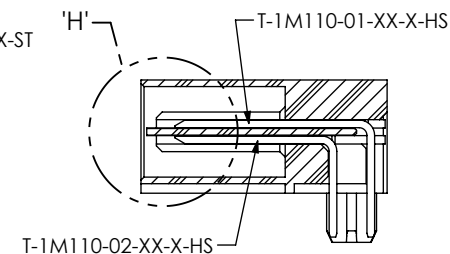


FIG 3
LPHT-08-24-X-RTX-GP-HS SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(NOT TOOLED)

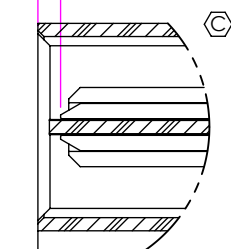


SECTION "E"-"E"
SCALE 2 : 1



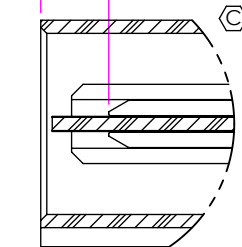
SECTION "F"-"F"
SCALE 2 : 1

0.75±0.20 [.030±.008] (2 PLCS ONLY)



DETAIL 'G'
SCALE 4 : 1

2.25±0.20 [.089±.008] (TYP)



DETAIL 'H'
SCALE 4 : 1

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 3:1

samtec

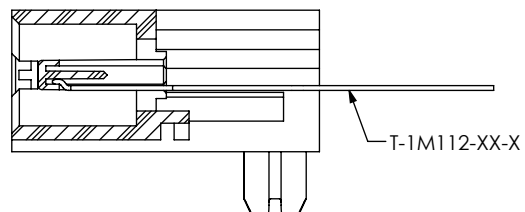
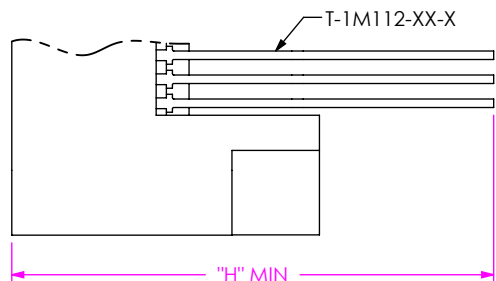
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
LPHT-RA TERMINAL ASSEMBLY

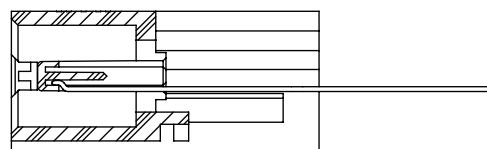
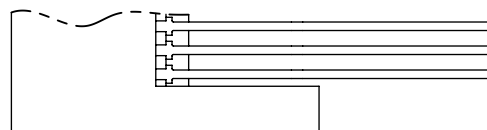
DWG. NO.
LPHT-XX-XX-X-RTX-XX

BY: ROY LUO 11/28/2011 SHEET 3 OF 8

REVISION E



GP OPTION

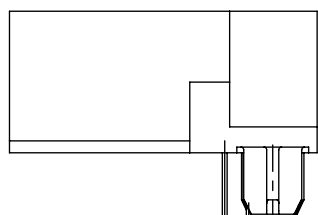


NO GP OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)

TABLE 5

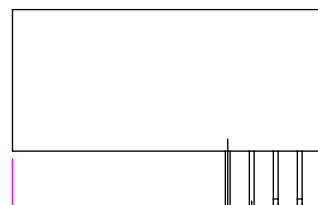
TAIL	"H"
-RT1	19.93 [.785]
-RT2	20.63 [.812]

IN-PROCESS 3
CUT OFF CARRIER



2.54 [.100] REF
1.27 [.050] REF
CL OF A-PIN

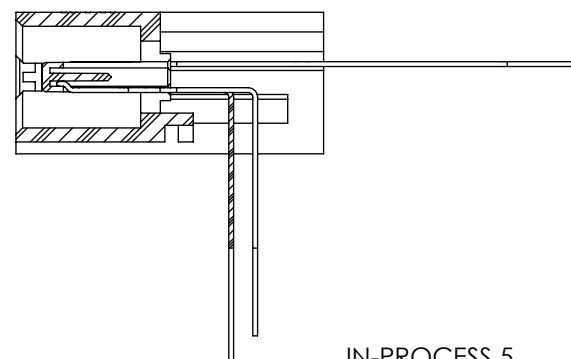
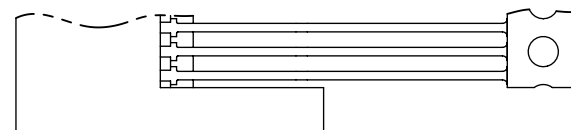
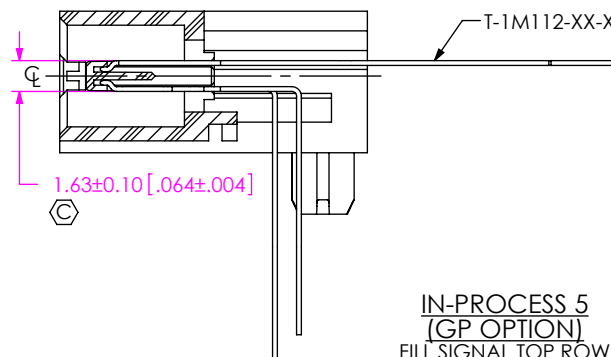
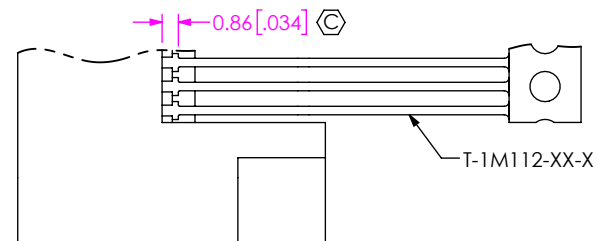
GP OPTION



11.39 [.448] REF
1.27 [.050] REF

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

IN-PROCESS 4
FORM SIGNAL BOTTOM ROW



IN-PROCESS 5
(NO GP OPTION)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)
FILL SIGNAL TOP ROW

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 3:1

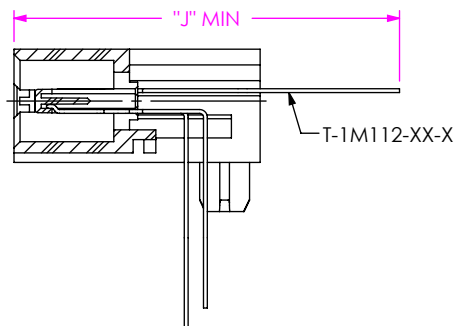
samtec

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

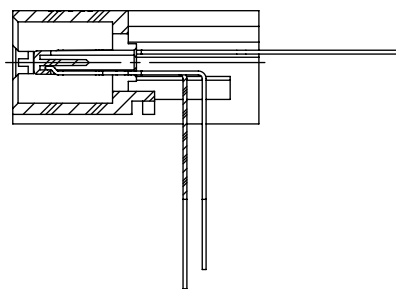
DESCRIPTION:
LPHT-RA TERMINAL ASSEMBLY

DWG. NO.
LPHT-XX-XX-X-RTX-XX

BY: ROY LUO 11/28/2011 SHEET 4 OF 8



GP OPTION

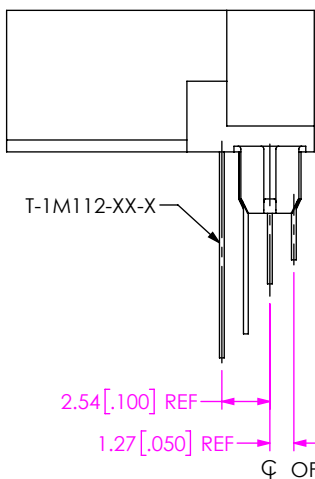


NO GP OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)

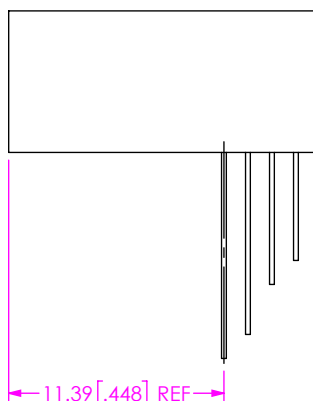
IN-PROCESS 6
CUT OFF CARRIER

TABLE 6

TAIL	"J"
-RT1	23.85 [.939]
-RT2	24.55 [.967]

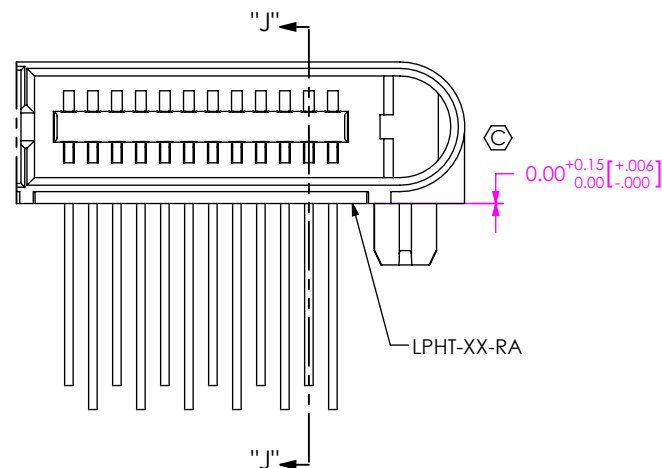


GP OPTION

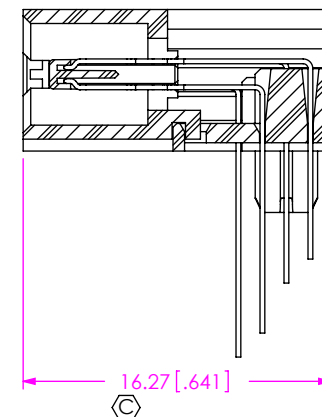


NO GP OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)

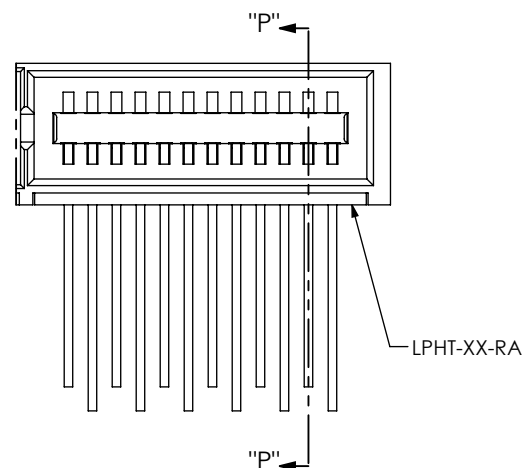
IN-PROCESS 7
FORM SIGNAL TOP ROW



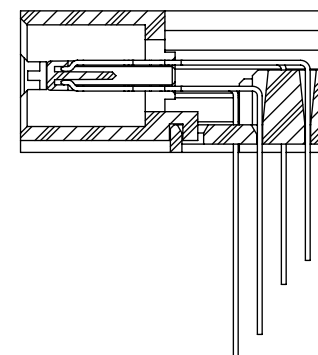
IN-PROCESS 8
(GP OPTION)
FILL LPHT-XX-RA



SECTION "J"-"J"
SCALE 2.5 : 1



IN-PROCESS 8
(NO GP OPTION)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS GP OPTION)
FILL LPHT-XX-RA



SECTION "P"-"P"
SCALE 2.5 : 1

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 3:1

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:
LPHT-RA TERMINAL ASSEMBLY

DWG. NO.
LPHT-XX-XX-X-RTX-XX

BY: ROY LUO 11/28/2011 SHEET 5 OF 8

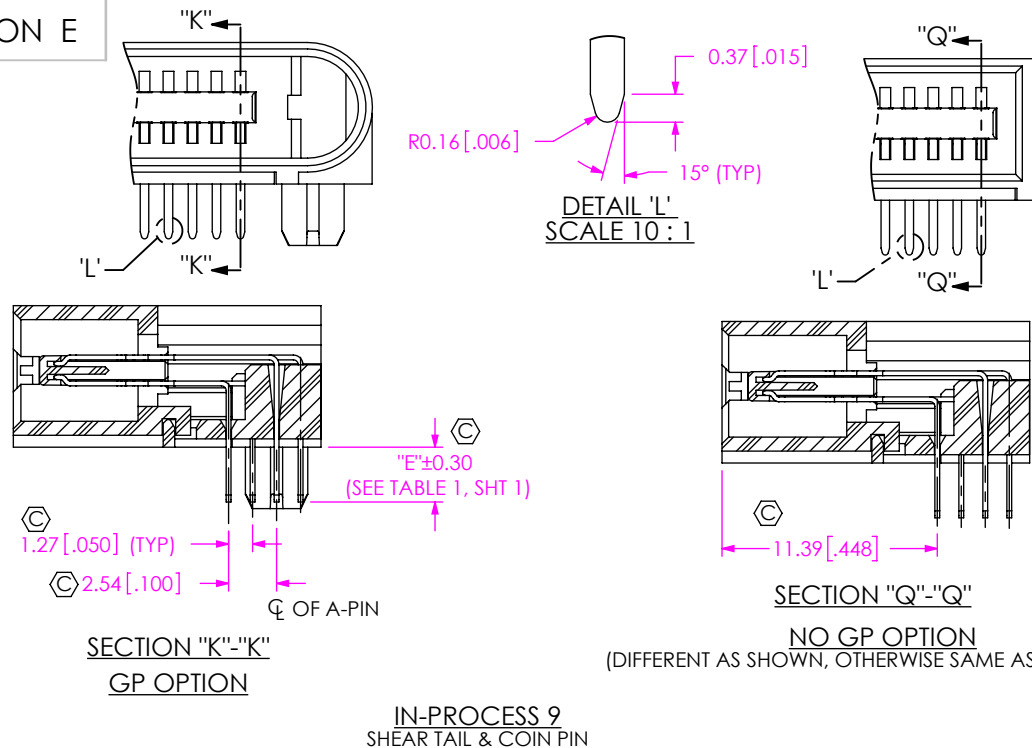
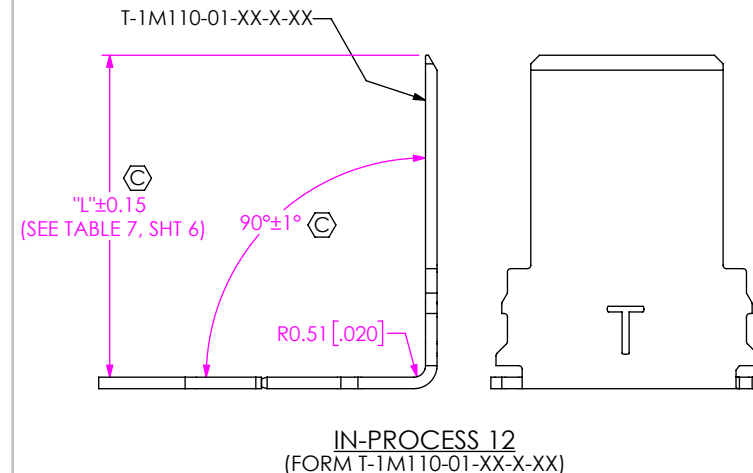
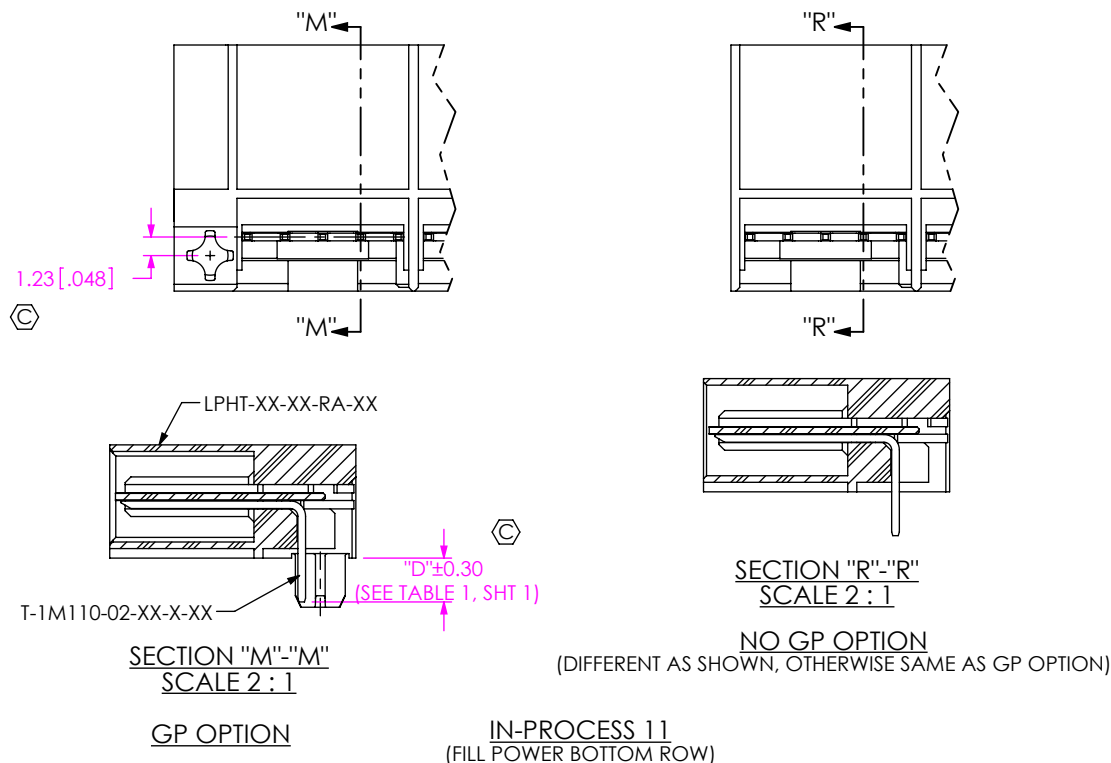
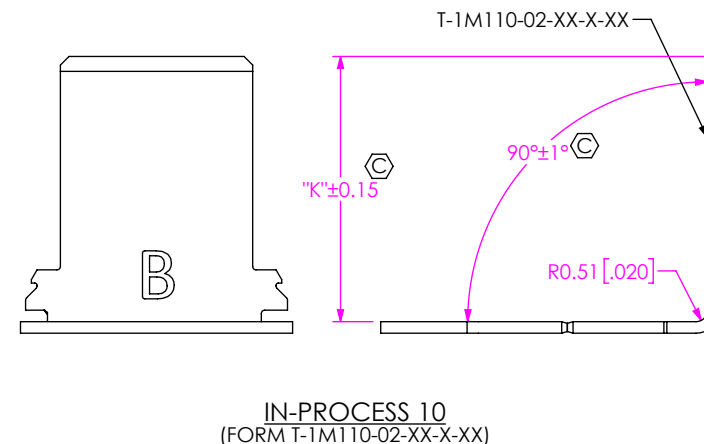


TABLE 7		
OPTION	"K"	"L"
N/A	11.70 [0.461]	14.20 [0.559]
*-HS	10.20 [0.402]	12.70 [0.500]

(* = NOT TOOLED)

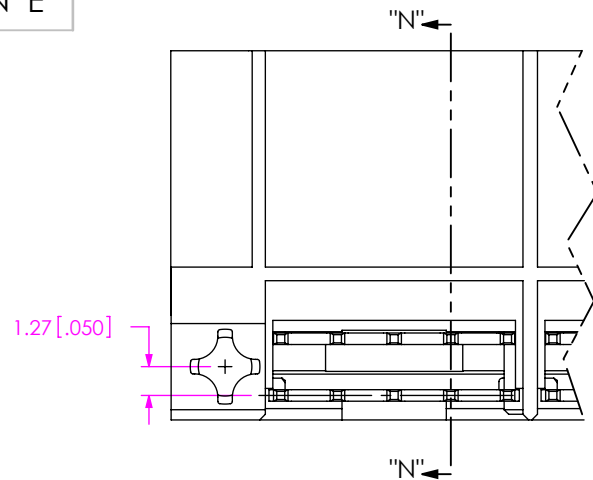


PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

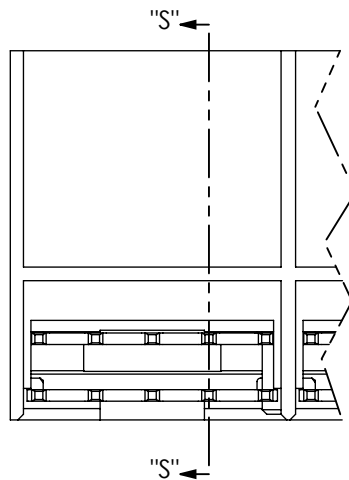
samtec
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

DO NOT SCALE DRAWING
SHEET SCALE: 1:1

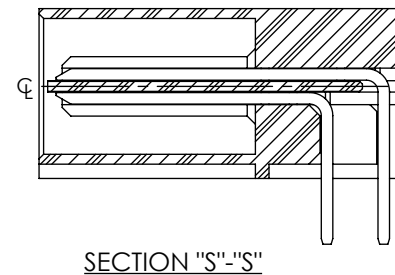
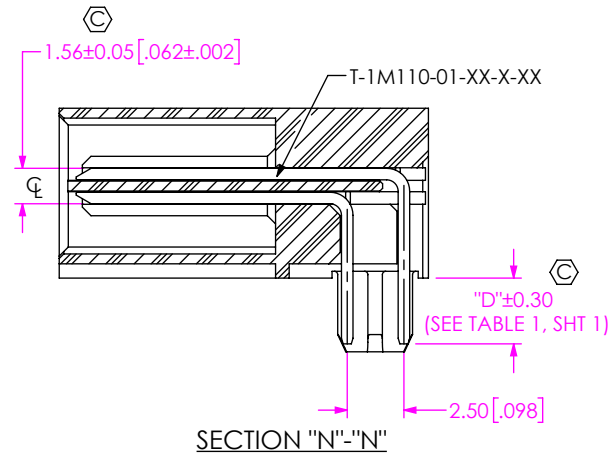
DESCRIPTION:
LPHT-RA TERMINAL ASSEMBLY
DWG. NO.
LPHT-XX-XX-X-RTX-XX
BY: ROY LUO 11/28/2011 SHEET 6 OF 8



IN-PROCESS 13
(GP OPTION)
(FILL POWER TOP ROW)



IN-PROCESS 13
(NO GP OPTION)
(FILL POWER TOP ROW)



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

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 3:1

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:
LPHT-RA TERMINAL ASSEMBLY

DWG. NO.
LPHT-XX-XX-X-RTX-XX

BY: ROY LUO 11/28/2011 SHEET 7 OF 8

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	31.43 [1.237]	24.09 [0.948]	25.92 [1.020]	43.43 [1.710]	36.09 [1.421]	37.92 [1.493]	55.43 [2.182]	48.09 [1.893]	49.92 [1.965]	67.43 [2.655]	60.09 [2.366]	61.92 [2.438]
16	33.97 [1.337]	26.63 [1.048]	28.46 [1.120]	45.97 [1.810]	38.63 [1.521]	40.46 [1.593]	57.97 [2.282]	50.63 [1.993]	52.46 [2.065]	69.97 [2.755]	62.63 [2.466]	64.46 [2.538]
20	36.51 [1.437]	29.17 [1.148]	31.00 [1.220]	48.51 [1.910]	41.17 [1.621]	43.00 [1.693]	60.51 [2.382]	53.17 [2.093]	55.00 [2.165]	72.51 [2.855]	65.17 [2.566]	67.00 [2.638]
24	39.05 [1.537]	31.71 [1.248]	33.54 [1.320]	51.05 [2.010]	43.71 [1.721]	45.54 [1.793]	63.05 [2.482]	55.71 [2.193]	57.54 [2.265]	75.05 [2.955]	67.71 [2.666]	69.54 [2.738]
28	41.59 [1.637]	34.25 [1.348]	36.08 [1.420]	53.59 [2.110]	46.25 [1.821]	48.08 [1.893]	65.59 [2.582]	58.25 [2.293]	60.08 [2.365]	77.59 [3.055]	70.25 [2.766]	72.08 [2.838]
32	44.13 [1.737]	36.79 [1.448]	38.62 [1.520]	56.13 [2.210]	48.79 [1.921]	50.62 [1.993]	68.13 [2.682]	60.79 [2.393]	62.62 [2.465]	80.13 [3.155]	72.79 [2.866]	74.62 [2.938]
* 36	46.67 [1.837]	39.33 [1.548]	41.16 [1.620]	58.67 [2.310]	51.33 [2.021]	53.16 [2.093]	70.67 [2.782]	63.33 [2.493]	65.16 [2.565]	82.67 [3.255]	75.33 [2.966]	77.16 [3.038]
* 40	49.21 [1.937]	41.87 [1.648]	43.70 [1.720]	61.21 [2.410]	53.87 [2.121]	55.70 [2.193]	73.21 [2.882]	65.87 [2.593]	67.70 [2.665]	85.21 [3.355]	77.87 [3.066]	79.70 [3.138]

(* = NOT TOOLED)

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	79.43 [3.127]	72.09 [2.838]	73.92 [2.910]	91.43 [3.600]	84.09 [3.311]	85.92 [3.383]	103.43 [4.072]	96.09 [3.783]	97.92 [3.855]
16	81.97 [3.227]	74.63 [2.938]	76.46 [3.010]	93.97 [3.700]	86.63 [3.411]	88.46 [3.483]	105.97 [4.172]	98.63 [3.883]	100.46 [3.955]
20	84.51 [3.327]	77.17 [3.038]	79.00 [3.110]	96.51 [3.800]	89.17 [3.511]	91.00 [3.583]	108.51 [4.272]	101.17 [3.983]	103.00 [4.055]
24	87.05 [3.427]	79.71 [3.138]	81.54 [3.210]	99.05 [3.900]	91.71 [3.611]	93.54 [3.683]	111.05 [4.372]	103.71 [4.083]	105.54 [4.155]
28	89.59 [3.527]	82.25 [3.238]	84.08 [3.310]	101.59 [4.000]	94.25 [3.711]	96.08 [3.783]	113.59 [4.472]	106.25 [4.183]	108.08 [4.255]
32	92.13 [3.627]	84.79 [3.338]	86.62 [3.410]	104.13 [4.100]	96.79 [3.811]	98.62 [3.883]	116.13 [4.572]	108.79 [4.283]	110.62 [4.355]
* 36	94.67 [3.727]	87.33 [3.438]	89.16 [3.510]	106.67 [4.200]	99.33 [3.911]	101.16 [3.983]	118.67 [4.672]	111.33 [4.383]	113.16 [4.455]
* 40	97.21 [3.827]	89.87 [3.538]	91.70 [3.610]	109.21 [4.300]	101.87 [4.011]	103.70 [4.083]	121.21 [4.772]	113.87 [4.483]	115.70 [4.555]

(* = NOT TOOLED)

TABLE 3 SIGNAL/POWER COMBO (NO GP OPTIONS)

	02 POWER	04 POWER	06 POWER	08 POWER	10 POWER	*12 POWER	*14 POWER
SIGNAL POS	"A"	"A"	"A"	"A"	"A"	"A"	"A"
* 12	23.96 [0.943]	35.96 [1.416]	47.96 [1.888]	59.96 [2.361]	71.96 [2.833]	83.96 [3.306]	95.96 [3.778]
16	26.50 [1.043]	38.50 [1.516]	50.50 [1.988]	62.50 [2.461]	74.50 [2.933]	86.50 [3.406]	98.50 [3.878]
20	29.04 [1.143]	41.04 [1.616]	53.04 [2.088]	65.04 [2.561]	77.04 [3.033]	89.04 [3.506]	101.04 [3.978]
24	31.58 [1.243]	43.58 [1.716]	55.58 [2.188]	67.58 [2.661]	79.58 [3.133]	91.58 [3.606]	103.58 [4.078]
28	34.12 [1.343]	46.12 [1.816]	58.12 [2.288]	70.12 [2.761]	82.12 [3.233]	94.12 [3.706]	106.12 [4.178]
32	36.66 [1.443]	48.66 [1.916]	60.66 [2.388]	72.66 [2.861]	84.66 [3.333]	96.66 [3.806]	108.66 [4.278]
* 36	39.20 [1.543]	51.20 [2.016]	63.20 [2.488]	75.20 [2.961]	87.20 [3.433]	99.20 [3.906]	111.20 [4.378]
* 40	41.74 [1.643]	53.74 [2.116]	65.74 [2.588]	77.74 [3.061]	89.74 [3.533]	101.74 [4.006]	113.74 [4.478]

(* = NOT TOOLED)

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]

(* = NOT TOOLED)

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 1:1



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

DESCRIPTION:
LPHT-RA TERMINAL ASSEMBLY

DWG. NO.
LPHT-XX-XX-X-RTX-XX

BY: ROY LUO 11/28/2011 SHEET 8 OF 8