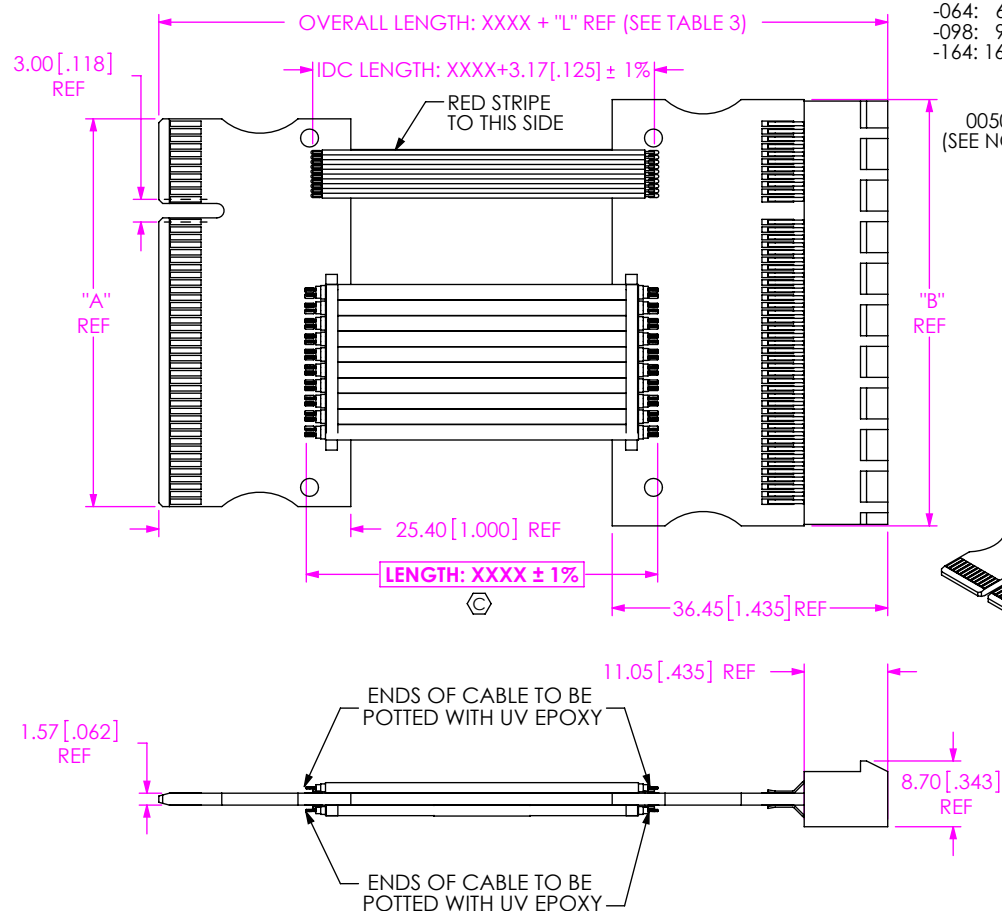


THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSINGDO NOT
SCALE FROM
THIS PRINT

NOTES:

1. ⊗ REPRESENTS A CRITICAL DIMENSION.
2. SUB-TTF LENGTH IS EQUAL TO PCIEC LENGTH.
3. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
4. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
5. TOP SUB-TTF NOT SHOWN IN THIS VIEW FOR CLARITY; HDRL-11 IS TO BE CENTERED ON LOWER SUB-TTF AS SHOWN; HDRL-11 IS TO CONTAIN PART NUMBER, SHOP NUMBER, & DATE CODE.
6. FOR SUB-ASSEMBLY AND FINISHED GOOD PACKAGING REQUIREMENTS, REFERENCE SAMTEC PACKAGING MANUAL.
7. FOR PRE-TINNING PROCESS INFORMATION ON THE SUB-PCB'S, SEE TRAVELER SUB-PCIEC-XXX-EC-XX AND SUB-PCIEC-XXX-EM-XX. FOR -85 OHM OPTION SEE TRAVELER SUB-PCIEC-XXX-EC-XX-85 AND SUB-PCIEC-XXX-EM-XX-85.
8. KEY CONSUMES 3 PITCHES.
9. NO POWER LINES CREATES A NO CONNECT CONDITION AT POSITIONS B1, B2, B3, B8, A2, A3, A9 AND A10
10. HOT PLUG DETECT COMMON AND ONLY FIRST AND LAST USED ON EACH POSITION.
11. CABLE LENGTHS LONGER THAN 1015 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
12. SIGNAL MAPPING IS ONLY AVAILABLE IN A 1-TO-1 CONFIGURATION. FOR EXAMPLE A1 TO A1, A2 TO A2, ETC.
13. REFER TO PREP-SPEC DRAWING FOR CABLE PREP DIMENSIONS. ASSEMBLY USES STANDARD PCB PREP.
14. MAX STANDARD CABLE LENGTH IS 5 METERS. FOR LENGTHS GREATER THAN 5 METERS, CONTACT HDR@SAMTEC.COM.

FIG 1
PCIEC-098-XXXX-EC-EM-X SHOWN

TABLE 3	
END TO END	"L"
-EC TO -EC	39.56
-EC TO -EM	49.62

PCIEC-XXX-XXXX-XX-XX-X-XX

No OF POSITIONS

-036: 36 POSITIONS (X1)
 -064: 64 POSITIONS (X4)
 -098: 98 POSITIONS (X8)
 -164: 164 POSITIONS (X16)

LENGTH

0050 mm MIN.
 (SEE NOTES 11 & 14)

FIRST END

-EC: EDGE CARD
 (SEE TABLE 4)

IMPEDANCE

-85: 85 ohm
 (LEAVE BLANK FOR 100 ohm)
 (SEE TABLE 6)

CABLE OPTIONS

(SEE TABLE 1 & SEE NOTE 9)
 (SEE TABLE 6 FOR PART NUMBER AVAILABILITY)

-P
 -A
 -AP
 -C
 -CP
 -(BLANK)

SECOND END (SEE TABLE 4)

-EC: PCIE EDGE CARD
 -EM: PCIEC EDGE MOUNT CONNECTOR

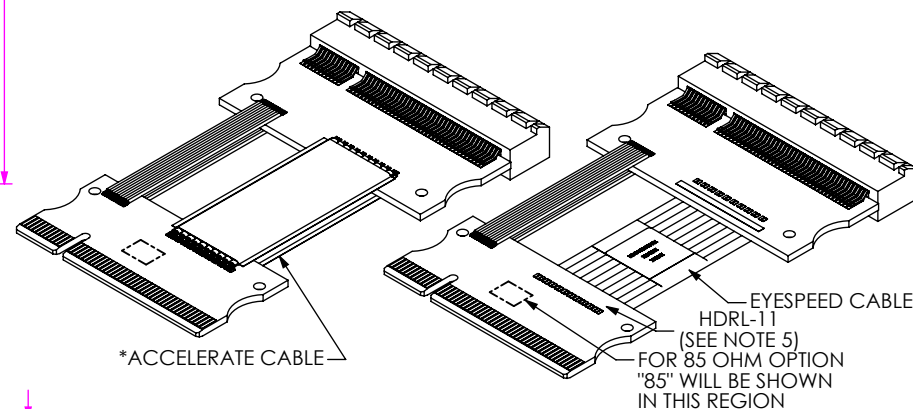


TABLE 6

CABLE OPTIONS	IMPEDANCE	
	85 ohm	100 ohm
-P (W/ POWER LINES)	3285 TAPED SHIELD	*30100 BRAIDED SHIELD
-A	3085 LAMINATED SHIELD	30100 LAMINATED SHIELD
-AP (W/ POWER LINES)	3085 LAMINATED SHIELD	30100 LAMINATED SHIELD
-C	NOT AVAILABLE	30100CU TAPED SHIELD
-CP (W/ POWER LINES)	NOT AVAILABLE	30100CU TAPED SHIELD
(BLANK)	3285 TAPED SHIELD	*30100 BRAIDED SHIELD

*: EXISTING CUSTOMERS ONLY

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:

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

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MATERIAL:

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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:

PCIEC CABLE ASSEMBLY

DWG. NO.

PCIEC-XXX-XXXX-XX-XX-X-XX

BY: D FRALEY 08/24/2006 SHEET 1 OF 3

TABLE 1								
NO OF POSITIONS	PART NUMBER	"A"	"B"	SUB- TTF- XXXXX- XX- 01- XX.XX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- XXX- XX- XX- XXXX (SEE NOTE 7)	QUANTITY OF SUB- TTF	QUANTITY OF SUB- IDC
- 036	*PCIEC- XXX- XX- EC- XX *PCIEC- XXX- XX- EC- XX- P	20.300	25.400	SUB- TTF- 30100- 02- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 036- XX- XX	2	2
- 064		34.298	39.398	SUB- TTF- 30100- 06- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 064- XX- XX	2	2
- 098		51.298	56.398	SUB- TTF- 30100- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 098- XX- XX	2	2
- 164		84.298	89.398	SUB- TTF- 30100- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 164- XX- XX	4	2
- 036	PCIEC- XXX- XX- EC- XX- 85 PCIEC- XXX- XX- EC- XX- P- 85	20.300	25.400	SUB- TTF- 3285- 02- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 036- XX- XX- 85	2	2
- 064		34.298	39.398	SUB- TTF- 3285- 06- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 064- XX- XX- 85	2	2
- 098		51.298	56.398	SUB- TTF- 3285- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 098- XX- XX- 85	2	2
- 164		84.298	89.398	SUB- TTF- 3285- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 164- XX- XX- 85	4	2
- 036	*PCIEC- XXX- XX- EC- XX- A *PCIEC- XXX- XX- EC- XX- AP	20.300	25.400	SUB- TTF- 30100LC- 02- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 036- XX- XX- 100A	2	2
- 064		34.298	39.398	SUB- TTF- 30100LC- 06- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 064- XX- XX- 100A	2	2
- 098		51.298	56.398	SUB- TTF- 30100LC- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 098- XX- XX- 100A	2	2
- 164		84.298	89.398	SUB- TTF- 30100LC- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 164- XX- XX- 100A	4	2
- 036	*PCIEC- XXX- XX- EC- XX- A- 85 *PCIEC- XXX- XX- EC- XX- AP- 85	20.300	25.400	SUB- TTF- 3085LC- 02- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 036- XX- XX- 85A	2	2
- 064		34.298	39.398	SUB- TTF- 3085LC- 06- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 064- XX- XX- 85A	2	2
- 098		51.298	56.398	SUB- TTF- 3085LC- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 098- XX- XX- 85A	2	2
- 164		84.298	89.398	SUB- TTF- 3085LC- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 164- XX- XX- 85A	4	2
- 036	PCIEC- XXX- XX- EC- XX- C PCIEC- XXX- XX- EC- XX- CP	20.300	25.400	SUB- TTF- 30100CU- 02- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 036- XX- XX	2	2
- 064		34.298	39.398	SUB- TTF- 30100CU- 06- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 064- XX- XX	2	2
- 098		51.298	56.398	SUB- TTF- 30100CU- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 098- XX- XX	2	2
- 164		84.298	89.398	SUB- TTF- 30100CU- 10- 01- XXXX	SUB- IDC- 1- 30- 10- 0250- XX.XX	SUB- PCIEC- 164- XX- XX	4	2

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DESCRIPTION:
PCIEC CABLE ASSEMBLY

DWG. NO.
PCIEC-XXX-XXXX-XX-XX-X-XX

BY: D FRALEY 08/24/2006 SHEET 2 OF 3

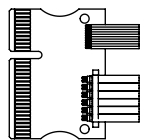
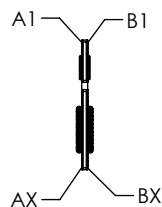
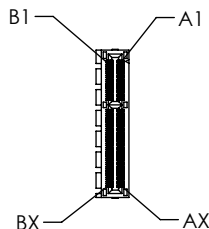
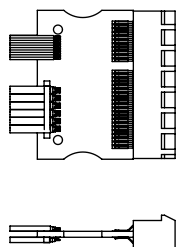
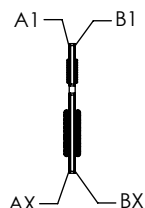
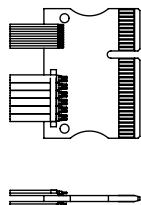
**-EC****SECOND END - EDGE (SEE TABLE 4)****-EM****-EC**

TABLE 4

FIRST END OPTION	FIRST END SUB-PCIEC-XXX-EC-XX (SEE NOTE 7)	COLOR	POWER LINE OPTION	SECOND END OPTION (SUB-PCIEC-XXX-XX-XX) (SEE NOTE 7)			
				-EC	COLOR	-EM	COLOR
-EC	-XXX-EC-01	GREEN	-P	-XXX-EC-02	RED	-XXX-EM-01	GREEN
	-XXX-EC-03	BLUE	(BLANK)	-XXX-EC-02	RED	-XXX-EM-01	GREEN

TABLE 5

SIDE B		SIDE A	
NAME	DESCRIPTION	NAME	DESCRIPTION
1	+12V 12 V power	PRSN1#	Hot-plug detect
2	+12V 12 V power	+12V	12 V power
3	+12V 12 V power	+12V	12 V power
4	GND GROUND	GND	GROUND
5	SMCLK SM Bus Clock	JTAG2	TCK (test clock)
6	SMDATA SM Bus Data	JTAG3	TDI (test input data)
7	GND GROUND	JTAG4	TDO (test data output)
8	+3.3V 3.3 V power	JTAG5	TMS (test mode select)
9	JTAG1 TRST# (test reset)	+3.3V	3.3 V power
10	+3.3V aux 3.3 V aux power	+3.3V	3.3 V power
11	WAKE# Signal for link	PERS1#	Fundamental reset

MECHANICAL KEY

12	RSVD RESERVED	GND	GROUND
13	GND GROUND	REFCLK+	Reference clock
14	PETp0 Transmitter, DP	REFCLK-	Diff pair
15	PETn0 LANE 0	GND	GROUND
16	GND GROUND	PERp0	Receiver, DP
17	PRSN2# Hot-plug detect	PERn0	LANE 0
18	GND GROUND	GND	GROUND

END OF X1 CONNECTOR

19	PETp1 Transmitter, DP	RSVD RESERVED	
20	PETn1 LANE 1	GND	GROUND
21	GND GROUND	PERp1	Receiver, DP
22	GND GROUND	PERn1	LANE 1
23	PETp2 Transmitter, DP	GND	GROUND
24	PETn2 LANE 2	GND	GROUND
25	GND GROUND	PERp2	Receiver, DP
26	GND GROUND	PERn2	LANE 2
27	PETp3 Transmitter, DP	GND	GROUND
28	PETn3 LANE 3	GND	GROUND
29	GND GROUND	PERp3	Receiver, DP
30	RSVD RESERVED	PERn3	LANE 3
31	PRSN2# Hot-plug detect	GND	GROUND
32	GND GROUND	RSVD RESERVED	

END OF X4 CONNECTOR

TABLE 2

No OF POSITIONS	X
-036	18
-064	32
-098	49
-164	82

SEE NOTES 9, 10 & 12

TABLE 5 (CONT)

33	PETp4 Transmitter, DP	RSVD RESERVED	
34	PETn4 LANE 4	GND	GROUND
35	GND GROUND	PERp4	Receiver, DP
36	GND GROUND	PERn4	LANE 4
37	PETp5 Transmitter, DP	GND	GROUND
38	PETn5 LANE 5	GND	GROUND
39	GND GROUND	PERp5	Receiver, DP
40	GND GROUND	PERn5	LANE 5
41	PETp6 Transmitter, DP	GND	GROUND
42	PETn6 LANE 6	GND	GROUND
43	GND GROUND	PERp6	Receiver, DP
44	GND GROUND	PERn6	LANE 6
45	PETp7 Transmitter, DP	GND	GROUND
46	PETn7 LANE 7	GND	GROUND
47	GND GROUND	PERp7	Receiver, DP
48	PRSN2# Hot-plug detect	PERn7	LANE 7
49	GND GROUND	GND	GROUND

END OF X8 CONNECTOR

50	PETp8 Transmitter, DP	RSVD RESERVED	
51	PETn8 LANE 8	GND	GROUND
52	GND GROUND	PERp8	Receiver, DP
53	GND GROUND	PERn8	LANE 8
54	PETp9 Transmitter, DP	GND	GROUND
55	PETn9 LANE 9	GND	GROUND
56	GND GROUND	PERp9	Receiver, DP
57	GND GROUND	PERn9	LANE 9
58	PETp10 Transmitter, DP	GND	GROUND
59	PETn10 LANE 10	GND	GROUND
60	GND GROUND	PERp10	Receiver, DP
61	GND GROUND	PERn10	LANE 10
62	PETp11 Transmitter, DP	GND	GROUND
63	PETn11 LANE 11	GND	GROUND
64	GND GROUND	PERp11	Receiver, DP
65	GND GROUND	PERn11	LANE 11
66	PETp12 Transmitter, DP	GND	GROUND
67	PETn12 LANE 12	GND	GROUND
68	GND GROUND	PERp12	Receiver, DP
69	GND GROUND	PERn12	LANE 12
70	PETp13 Transmitter, DP	GND	GROUND
71	PETn13 LANE 13	GND	GROUND
72	GND GROUND	PERp13	Receiver, DP
73	GND GROUND	PERn13	LANE 13
74	PETp14 Transmitter, DP	GND	GROUND
75	PETn14 LANE 14	GND	GROUND
76	GND GROUND	PERp14	Receiver, DP
77	GND GROUND	PERn14	LANE 14
78	PETp15 Transmitter, DP	GND	GROUND
79	PETn15 LANE 15	GND	GROUND
80	GND GROUND	PERp15	Receiver, DP
81	PRSN2# Hot-plug detect	PERn15	LANE 15
82	RSVD RESERVED	GND	GROUND

END OF X16 CONNECTOR**PROPRIETARY NOTE**

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DESCRIPTION:

PCIEC CABLE ASSEMBLY

DWG. NO.

PCIEC-XXX-XXXX-XX-XX-X-XX

BY: D FRALEY 08/24/2006 SHEET 3 OF 3