CR-1 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE1

Service Panel Board II 48V

ASSEMBLY_SEC1 = GBA26800NB1 for 48V Brakes
ASSEMBLY_SEC2 = GBA26800NB2 for 24V Brakes (NOT QUALIFIED)
ASSEMBLY_SEC3 = GBA26800NB3 for 48V Brakes and MRO BL OPTIMIZED

DRAWING
TITLE=Service Panel Board II 48V
ABBREV=SPBC_II-48V
PCB_CODE=CXADE1--
QUALITY_CRITERIA=GCA26800NB_TR
LAST_MODIFIED=Tue Oct 22 10:49:34 2013

Changes

2011-03-10	G(B)A	VERSION 3 FOR GENESIS ADDED	CA47A-003543	S.GREIFENBERG
2013-10-25	G(C)A	PROTECTION DIODES FOR LEDS IN BRAKE CIRCUIT ADDED	CN452218	F.DONATH

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

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A United Technologies Company

CIRCUIT DIAGRAM FOR

SPBC_II
48V

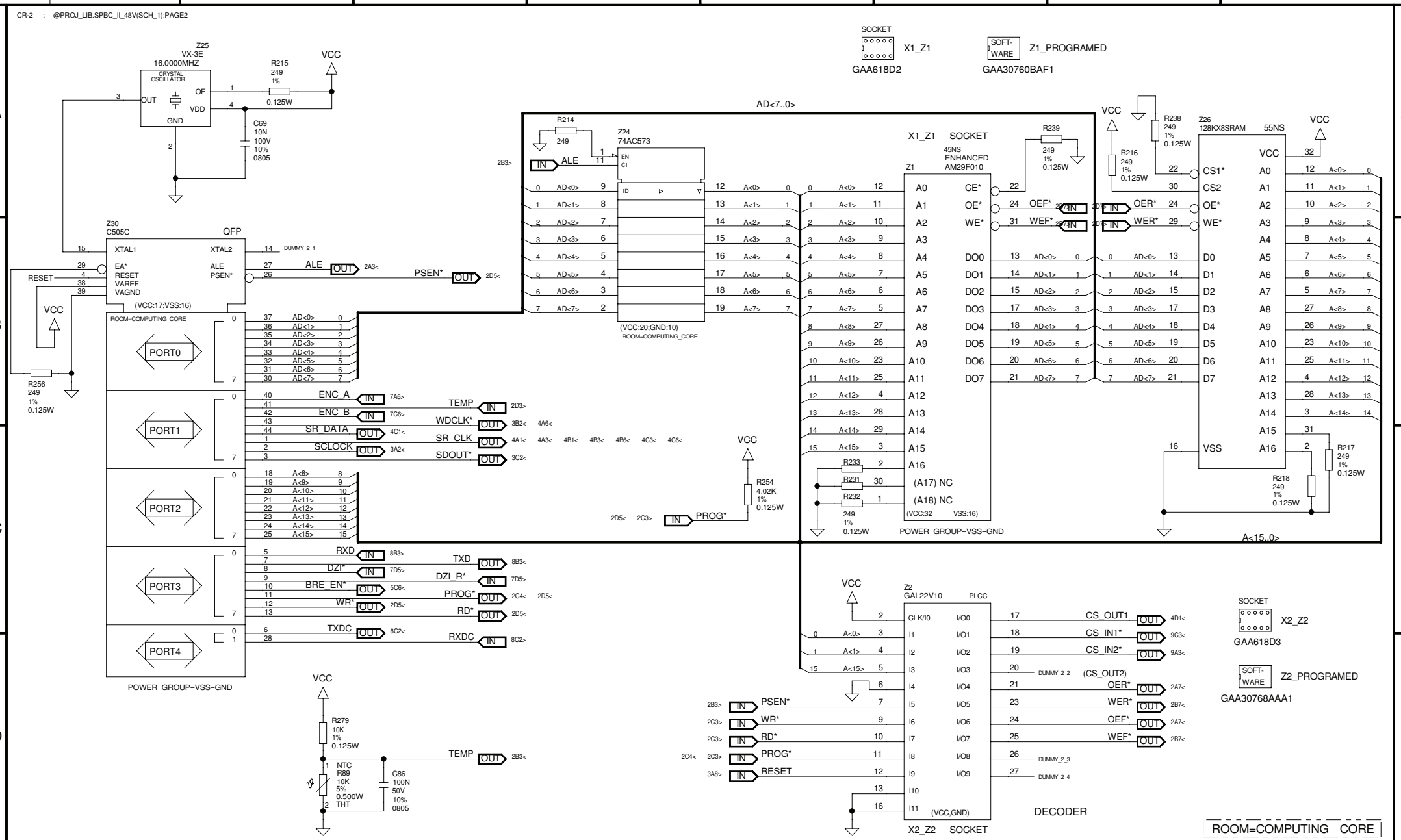
CAD GENERATED
CADENCE-CONCEPT

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	30 SHEETS
AUTH	CA47A-000554	SHEET 1

OECB_A3
REV 2004-09-06



Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

Otis
A United Technologies Company

CIRCUIT DIAGRAM FOR

SPBC_II 48V

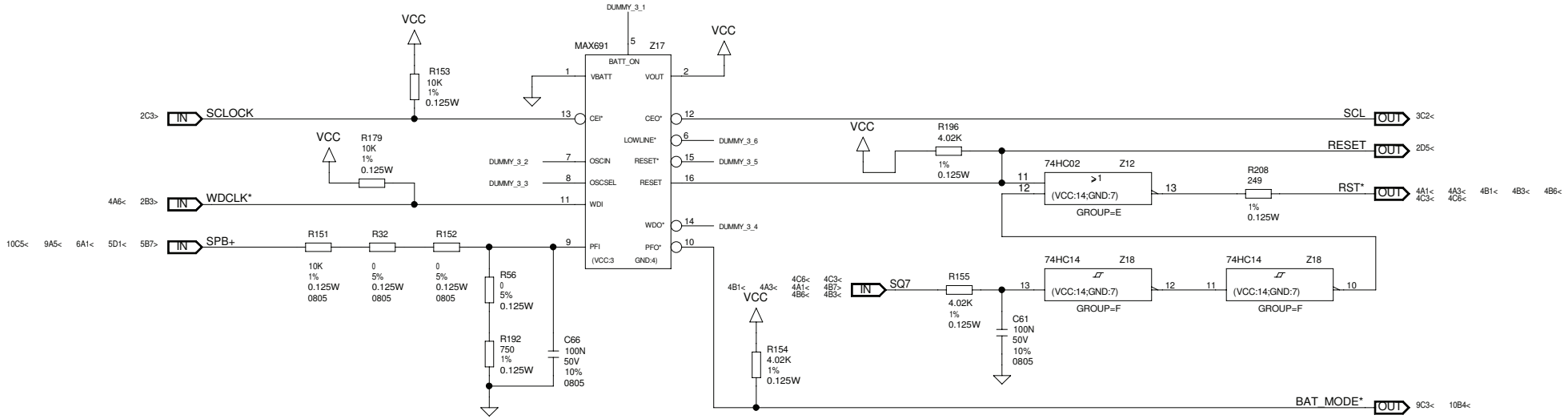
CAD GENERATED CADENCE-CONCEPT

DWG	GCA26800NB
	OTIS ENGINEERING CENTER BERLIN, GERMANY
DRAWN	F. Donath
CHK	J.Gewinner
APPD	H.Horbruegger
AUTH	CA47A-000554
ORIGINAL DATE	2009-09-29
SHEETS	SHEET 2

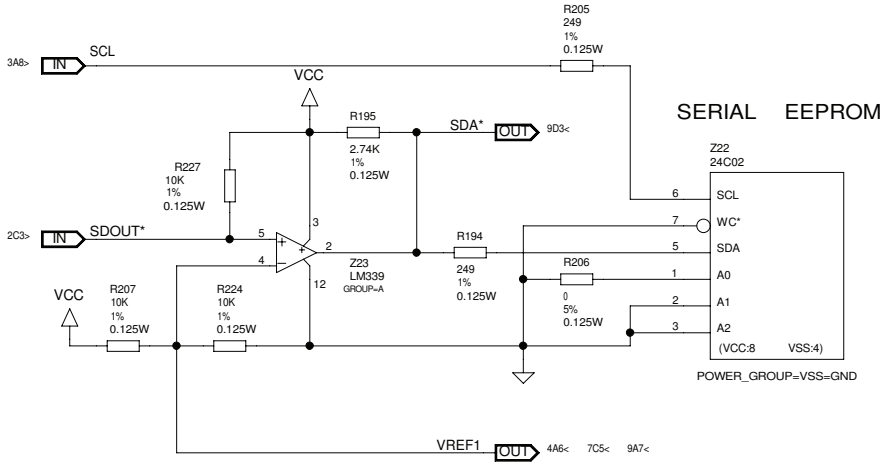
OECB_A3
REV 2004-09-06

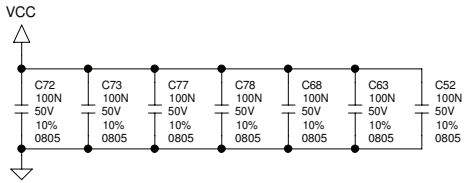
CR-3 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE3

WATCHDOG



SERIAL EEPROM

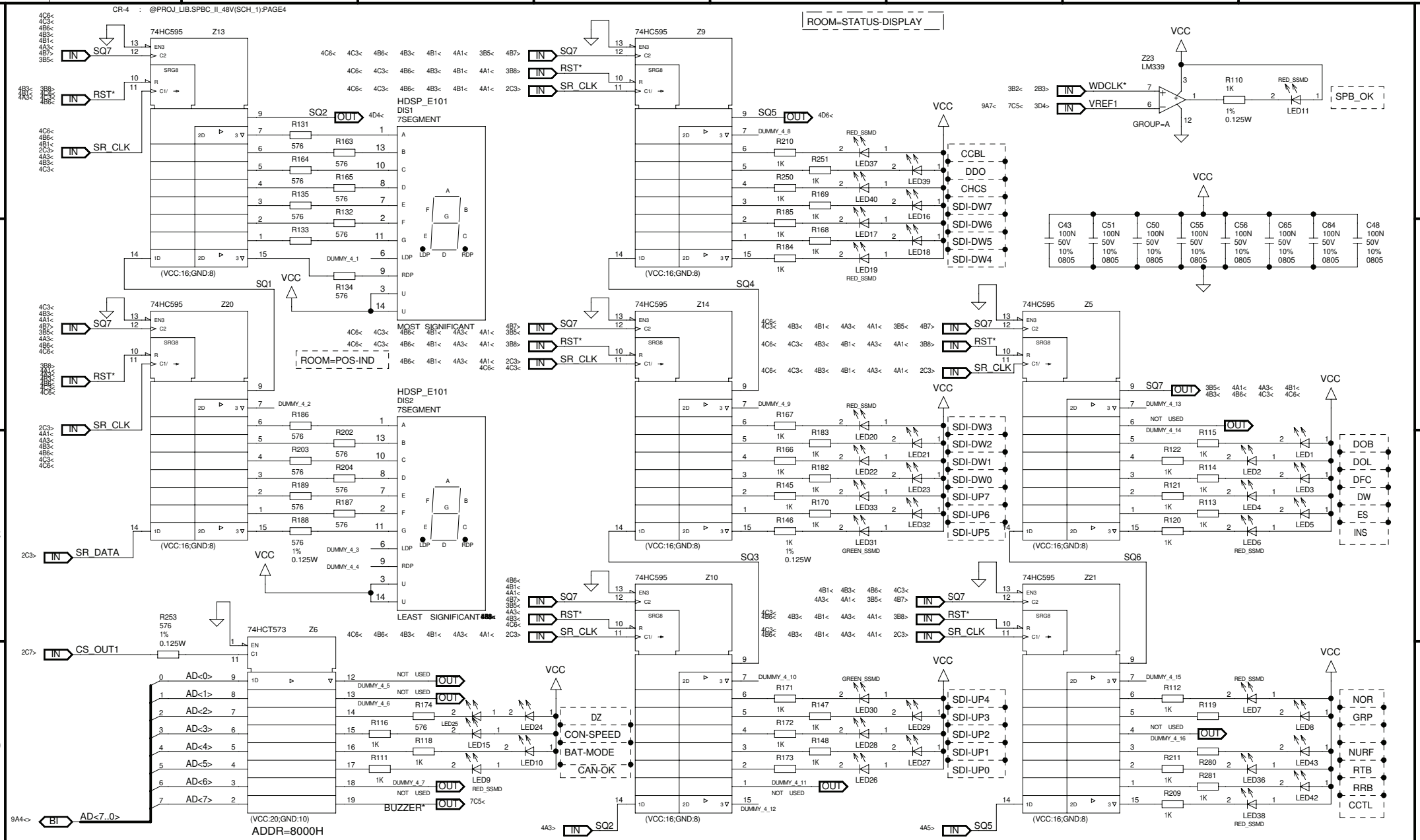




ROOM=COMPUTING CORE

Changes	WARNING	CIRCUIT DIAGRAM FOR	DWG GCA26800NB
	THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY (OTIS). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS ; THAT NEITHER IT OR NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS ; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.	SPBC_II 48V	OTIS ENGINEERING CENTER BERLIN, GERMANY
	UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.		DRAWN F. Donath — ORIGINAL DATE
	Otis A United Technologies Company	CAD GENERATED CADENCE-CONCEPT	CHK J.Gewinner — 2009-09-29
			APPD H.Horbruegger — SHEETS
DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING			AUTH CA47A-000554 — SHEET 3

OECB_A3
REV 2004-09-06



Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

Otis
A United Technologies Company

CIRCUIT DIAGRAM FOR

SPBC_II 48V

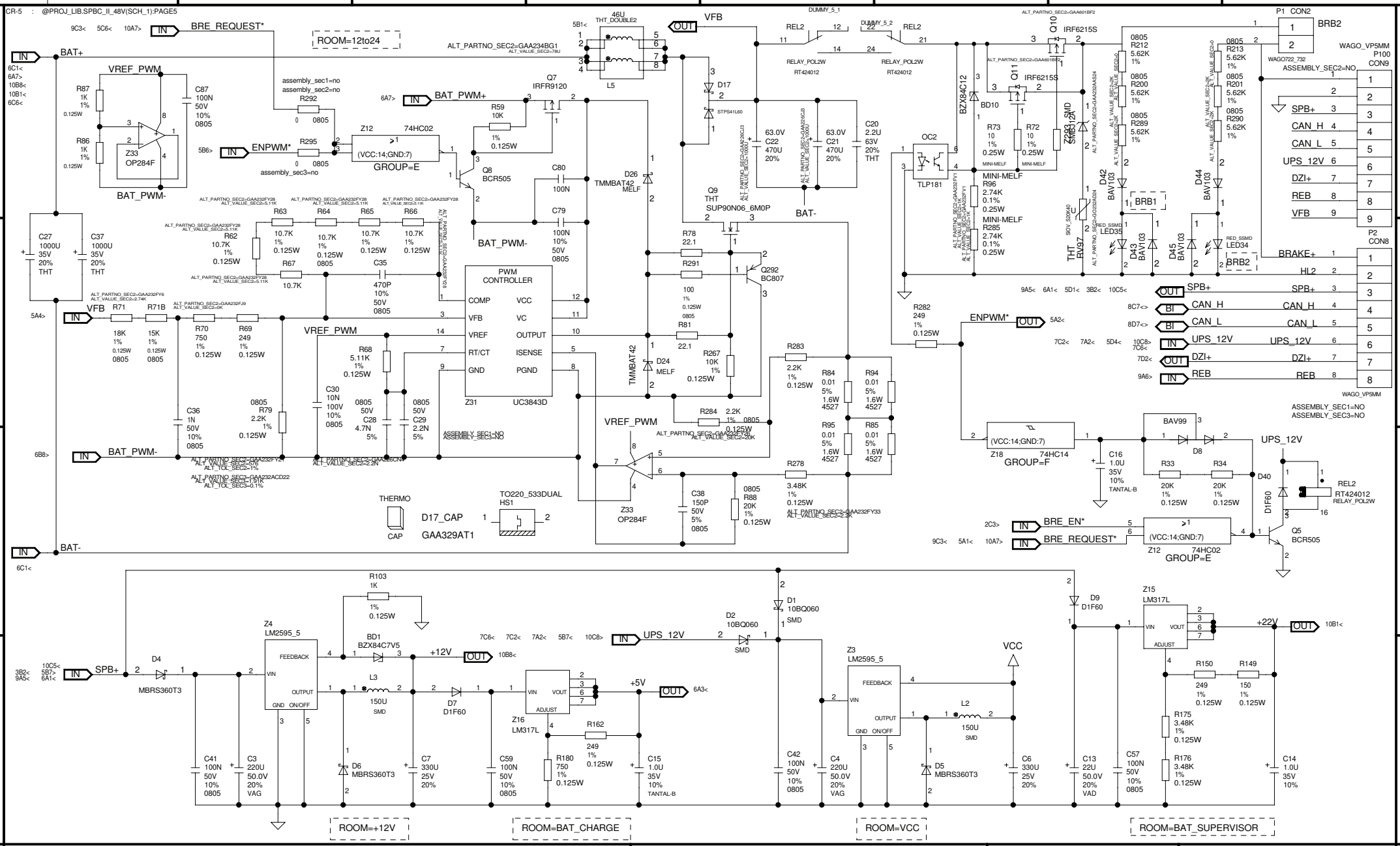
CAD GENERATED CADENCE-CONCEPT

DWG **GCA26800NB**

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 4

OECB_A3
REV 2004-09-06



Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

Otis
A United Technologies Company

CIRCUIT DIAGRAM FOR

SPBC_II 48V

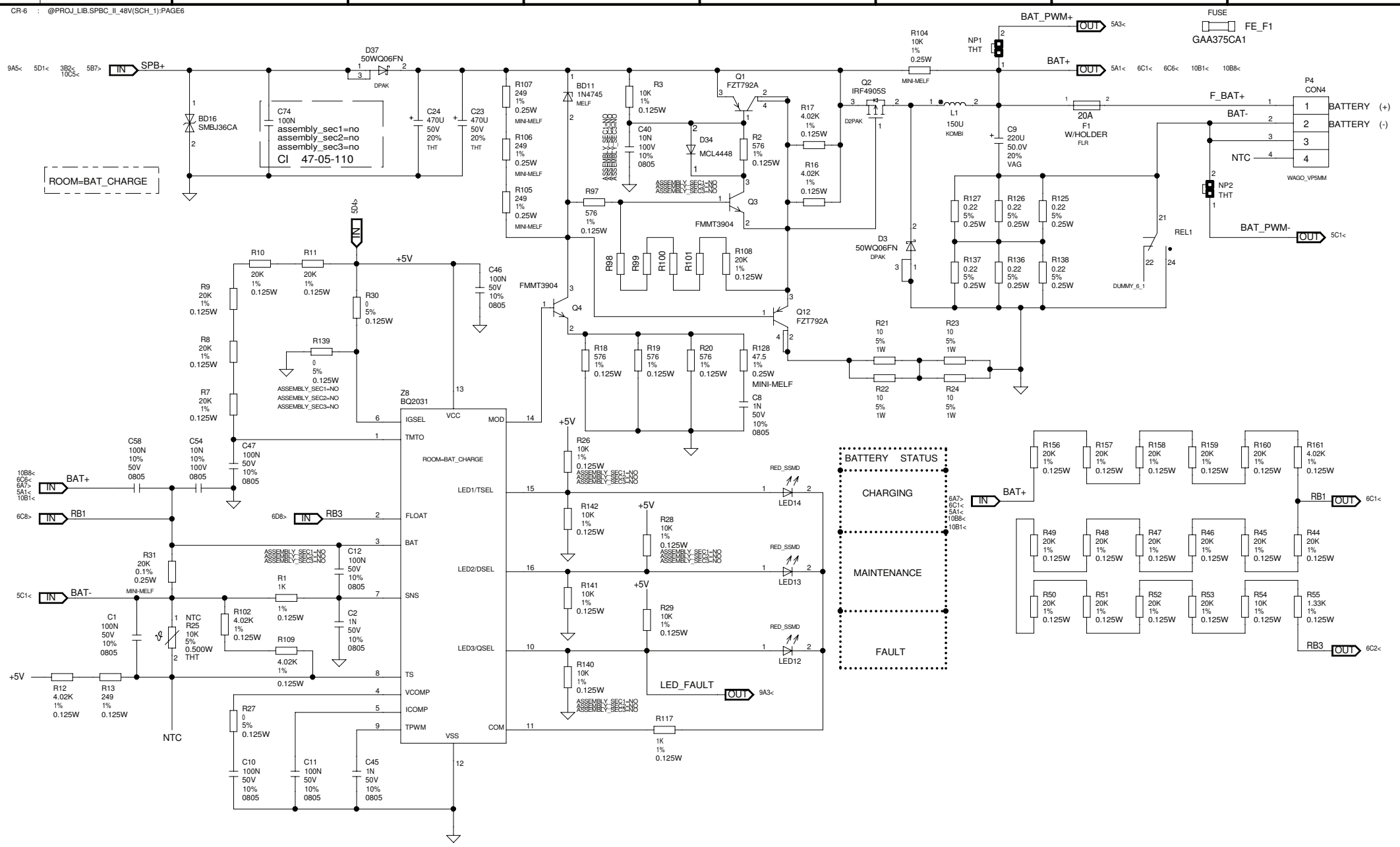
CAD GENERATED CADENCE-CONCEPT

DWG **GCA26800NB**

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE	
CHK	J.Gewinner		2009-09-29
APPD	H.Horbruegger	SHEETS	
AUTH	CA47A-000554	SHEET	5

OECB_A3
REV 2004-09-06



Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

Otis
A United Technologies Company

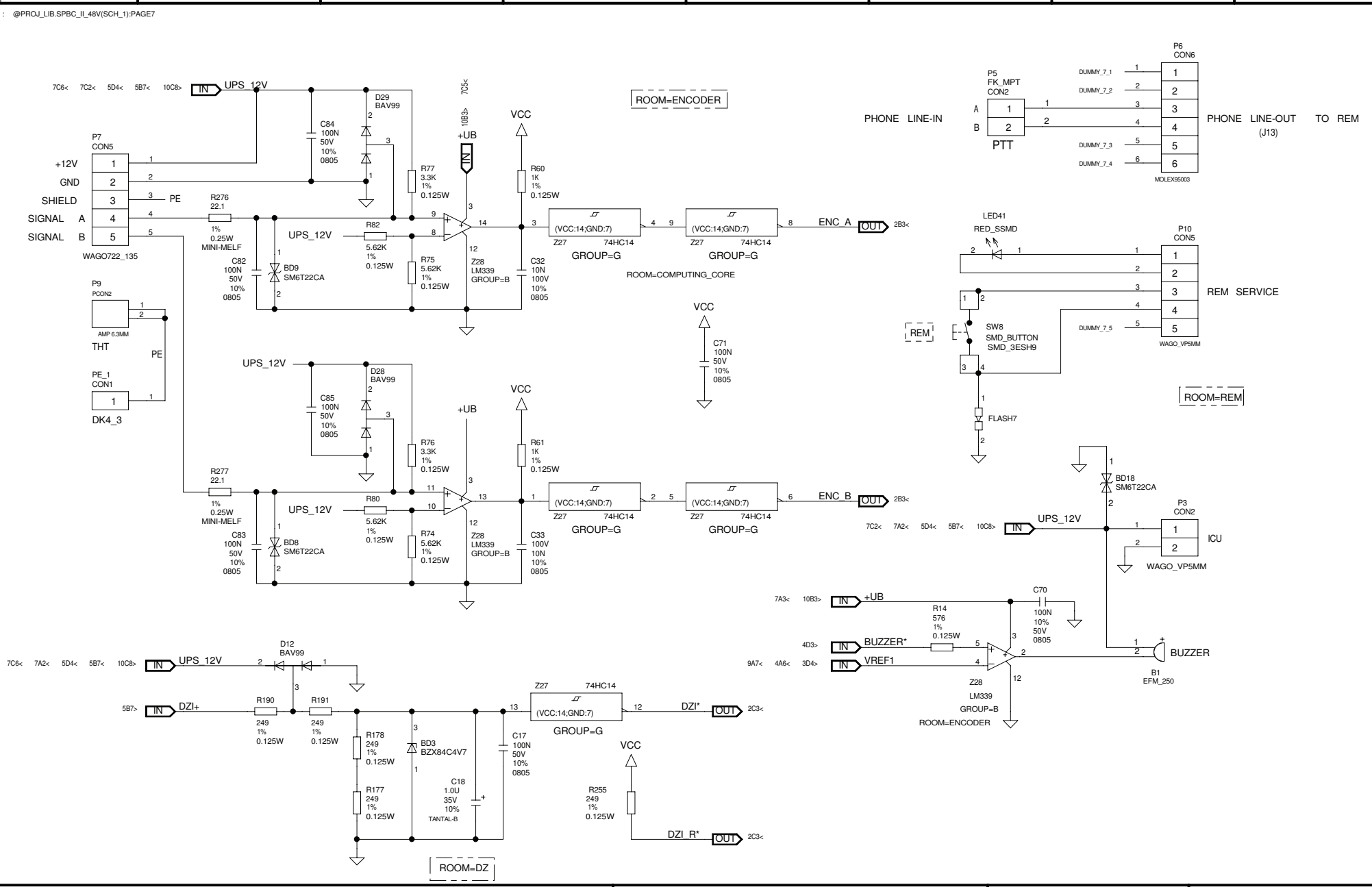
CIRCUIT DIAGRAM FOR

SPBC_II 48V

CAD GENERATED CADENCE-CONCEPT

DWG	GCA26800NB
	OTIS ENGINEERING CENTER BERLIN, GERMANY
DRAWN F. Donath	ORIGINAL DATE
CHK J.Gewinner	2009-09-29
APPD H.Horbruegger	SHEETS
AUTH CA47A-000554	SHEET 6

OECB_A3
REV 2004-09-06



Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

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CIRCUIT DIAGRAM FOR

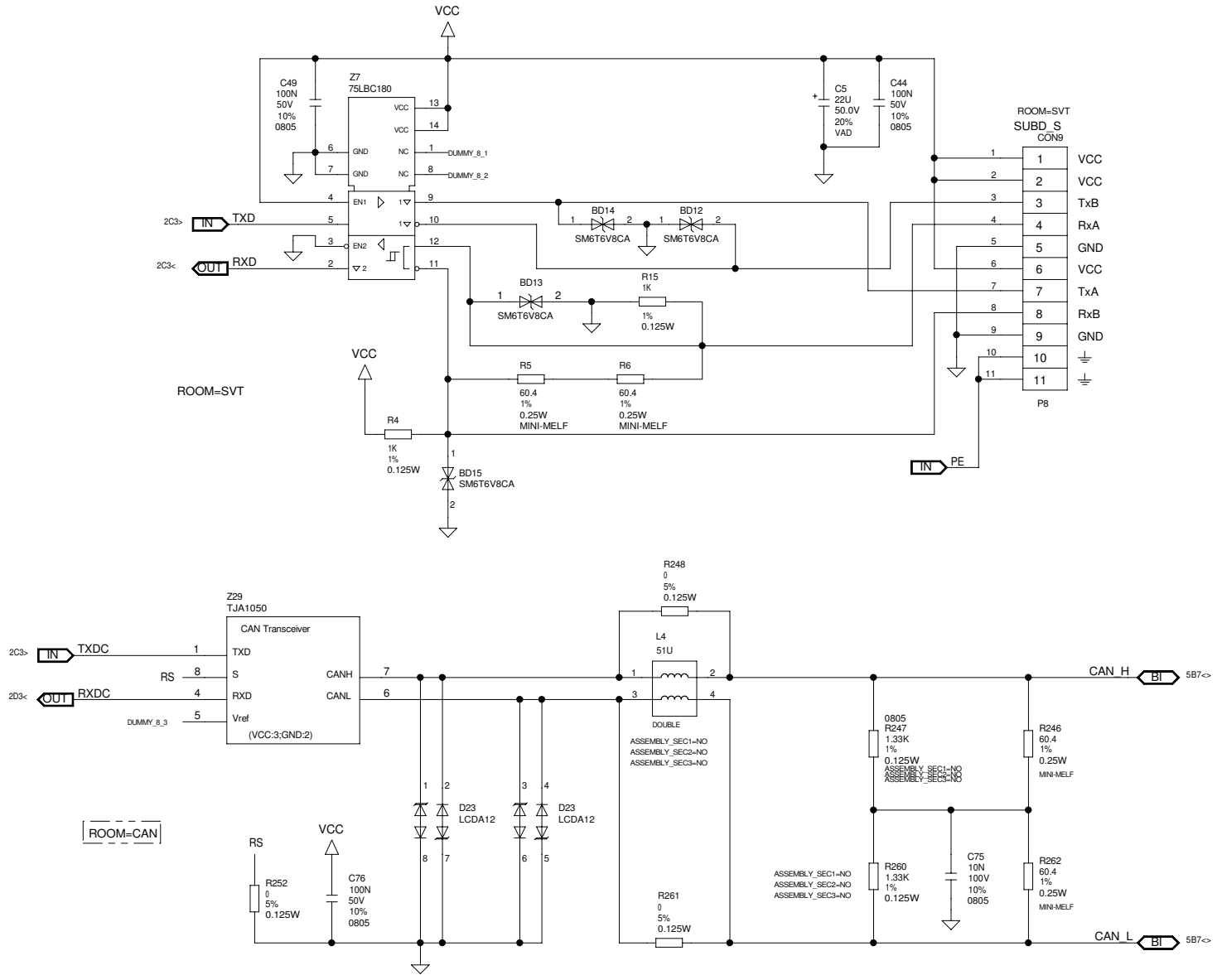
SPBC_II 48V

CAD GENERATED CADENCE-CONCEPT

DWG	GCA26800NB	
OTIS ENGINEERING CENTER BERLIN, GERMANY		
DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 7

OECB_A3
REV 2004-09-06

CR-8 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE8



Changes

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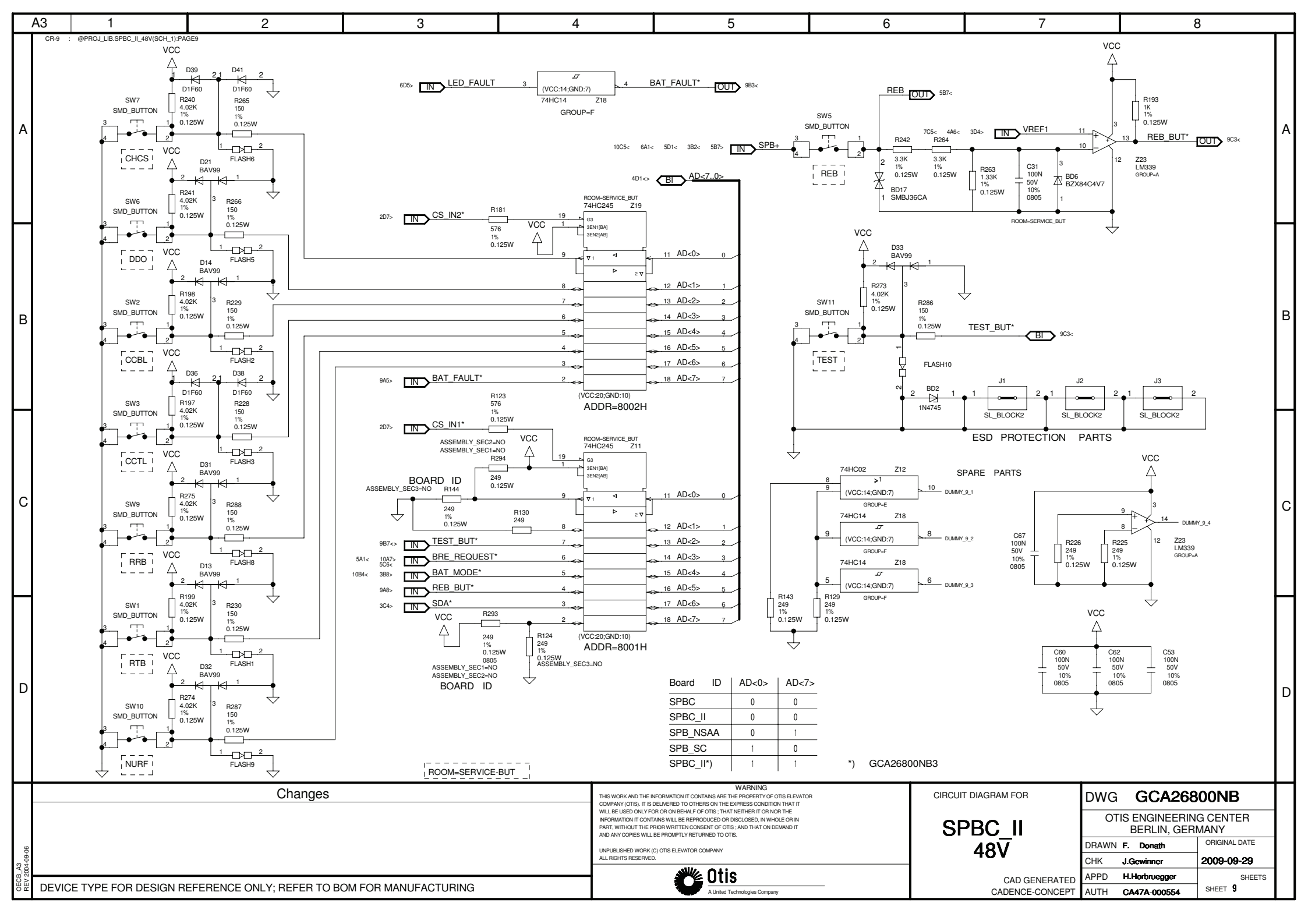
CIRCUIT DIAGRAM FOR

SPBC_II 48V

CAD GENERATED
CADENCE-CONCEPT

DWG	GCA26800NB	
OTIS ENGINEERING CENTER BERLIN, GERMANY		
DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 8

OECB_A3
REV 2004-09-06



Changes

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CIRCUIT DIAGRAM FOR

SPBC_II 48V

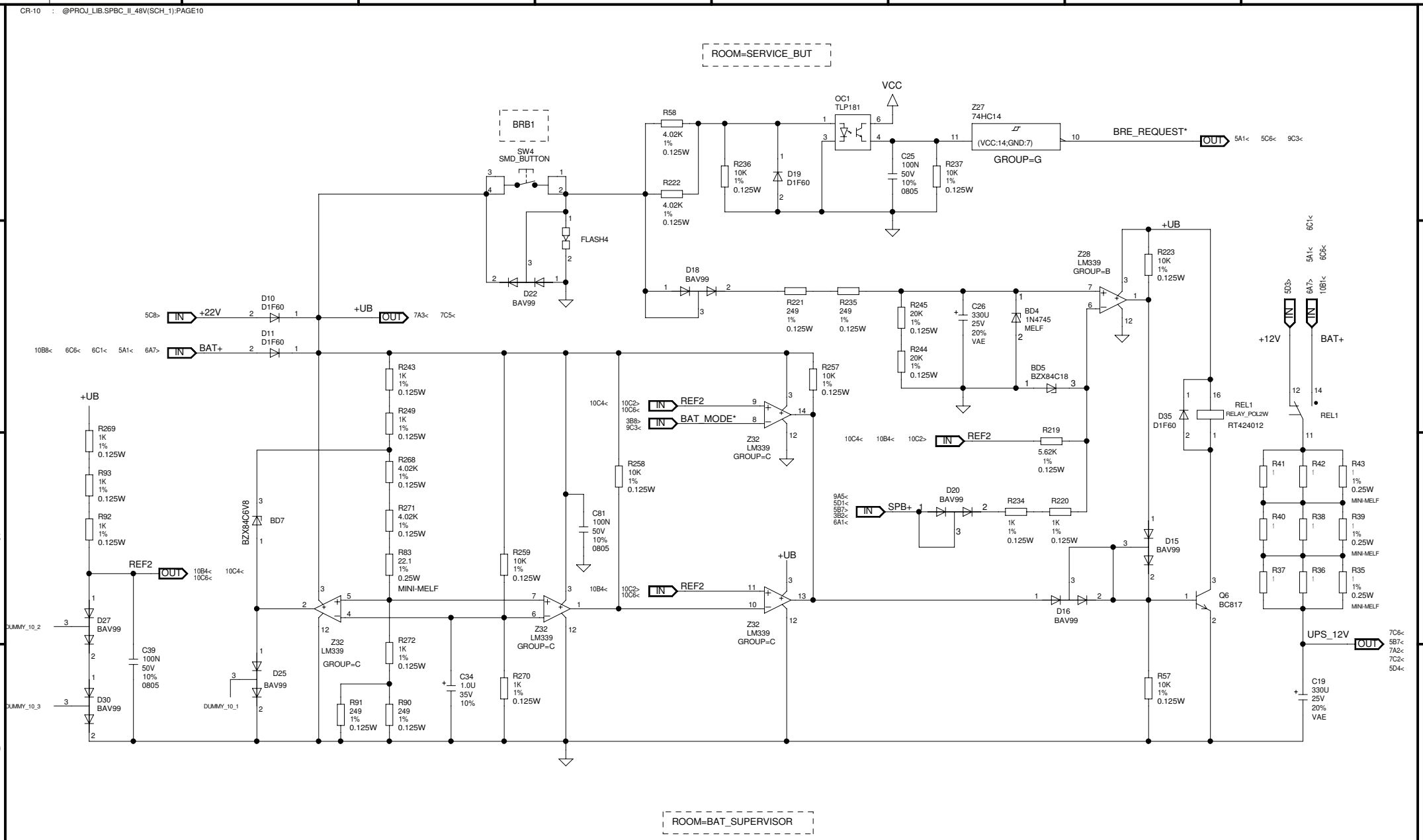
CAD GENERATED CADENCE-CONCEPT

DWG **GCA26800NB**

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 9

OECB_A3
REV 2004-09-06



Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

Otis
A United Technologies Company

CIRCUIT DIAGRAM FOR

SPBC_II 48V

CAD GENERATED CADENCE-CONCEPT

DWG	GCA26800NB
	OTIS ENGINEERING CENTER BERLIN, GERMANY
DRAWN F. Donath	ORIGINAL DATE
CHK J.Gewinner	2009-09-29
APPD H.Horbruegger	SHEETS
AUTH CA47A-000554	SHEET 10

OECB_A3
REV 2004-09-06

CR-11 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE11

	NO_TYPE	15V	25V	30V																
NO_TYPE	0.3 (0.3)	0.6 (0.3)	1.9 (0.4)	1.3 (0.3)																
15V	---	0.3 (0.3)	1.9 (0.4)	0.6 (0.3)																
25V	---	---	1.9 (0.4)	0.3 (0.3)																
30V	---	---	---	0.3 (0.3)																
	---	---	---	---																
	---	---	---	---	---															
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	---	---	---	Notes Values for the Inner-Layer ( )										---	---	---				
	---	---	---											---	---	---	---			
	---	---	---											---	---	---	---	---		
	---	---	---											---	---	---	---	---	---	

Changes

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A United Technologies Company

CIRCUIT DIAGRAM FOR

SPBC_II 48V

CAD GENERATED
CADENCE-CONCEPT

DWG **GCA26800NB**

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 11

OECB_A3
REV 2000-12-20

CR-12 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE12

Title: Cref Part Report
Design: spbc_ii
Date: Apr 30 9:43:02 2010

B1	BUZZER_EFM_250	spbc_ii[	7C7]
BD1	BZX84C7V5_SMD	spbc_ii[	5D3]
BD2	1N4745_MELF	spbc_ii[	9B6]
BD3	BZX84C4V7_SMD	spbc_ii[	7D3]
BD4	1N4745_MELF	spbc_ii[	10B6]
BD5	BZX84C18_SMD	spbc_ii[	10B6]
BD6	BZX84C4V7_SMD	spbc_ii[	9A7]
BD7	BZX84C6V8_SMD	spbc_ii[	10C2]
BD8	SM6T22CA_SMD	spbc_ii[	7C2]
BD9	SM6T22CA_SMD	spbc_ii[	7B2]
BD10	BZX84C12_SMD	spbc_ii[	5A6]
BD11	1N4745_MELF	spbc_ii[	6A4]
BD12	SM6T6V8CA	spbc_ii[	8B5]
BD13	SM6T6V8CA_SMD	spbc_ii[	8B4]
BD14	SM6T6V8CA	spbc_ii[	8B4]
BD15	SM6T6V8CA	spbc_ii[	8B4]
BD16	SMBJ36CA_SMD	spbc_ii[	6A2]
BD17	SMBJ36CA_SMD	spbc_ii[	9A6]
BD18	SM6T22CA_SMD	spbc_ii[	7C7]
C1	C_0805	spbc_ii[	6C1]
C2	C_0805	spbc_ii[	6C2]
C3	CAP_VAG	spbc_ii[	5D2]
C4	CAP_VAG	spbc_ii[	5D5]
C5	CAP_VAD	spbc_ii[	8A5]
C6	CAP_VAE	spbc_ii[	5D6]
C7	CAP_VAE	spbc_ii[	5D3]
C8	C_0805	spbc_ii[	6B5]
C9	CAP_VAG	spbc_ii[	6A6]
C10	C_0805	spbc_ii[	6D2]
C11	C_0805	spbc_ii[	6D2]
C12	C_0805	spbc_ii[	6C2]
C13	CAP_VAD	spbc_ii[	5D7]
C14	CAP_TANTAL-B	spbc_ii[	5D8]
C15	CAP_TANTAL-B	spbc_ii[	5D4]
C16	CAP_TANTAL-B	spbc_ii[	5C7]
C17	C_0805	spbc_ii[	7D3]
C18	CAP_TANTAL-B	spbc_ii[	7D3]
C19	CAP_VAE	spbc_ii[	10D8]
C20	C_THT	spbc_ii[	5A5]
C21	CAP_THT	spbc_ii[	5A5]
C22	CAP_THT	spbc_ii[	5A5]
C23	CAP_THT	spbc_ii[	6A3]
C24	CAP_THT	spbc_ii[	6A3]
C25	C_0805	spbc_ii[	10A6]
C26	CAP_VAE	spbc_ii[	10B6]
C27	CAP_THT	spbc_ii[	5B1]
C28	C_0805	spbc_ii[	5B3]
C29	C_0805	spbc_ii[	5B3]
C30	C_0805	spbc_ii[	5B2]
C31	C_0805	spbc_ii[	9A7]
C32	C_0805	spbc_ii[	7B4]
C33	C_0805	spbc_ii[	7C4]
C34	CAP_TANTAL-B	spbc_ii[	10D3]
C35	C_0805	spbc_ii[	5B3]
C36	C_0805	spbc_ii[	5B1]
C37	CAP_THT	spbc_ii[	5B1]
C38	C_0805	spbc_ii[	5C4]
C39	C_0805	spbc_ii[	10D1]
C40	C_0805	spbc_ii[	6A4]
C41	C_0805	spbc_ii[	5D2]
C42	C_0805	spbc_ii[	5D5]
C43	C_0805	spbc_ii[	4B6]
C44	C_0805	spbc_ii[	8A6]
C45	C_0805	spbc_ii[	6D3]
C46	C_0805	spbc_ii[	6B3]
C47	C_0805	spbc_ii[	6C2]
C48	C_0805	spbc_ii[	4B8]
C49	C_0805	spbc_ii[	8A3]
C50	C_0805	spbc_ii[	4B7]
C51	C_0805	spbc_ii[	4B7]
C52	C_0805	spbc_ii[	3C7]
C53	C_0805	spbc_ii[	9D8]
C54	C_0805	spbc_ii[	6C2]
C55	C_0805	spbc_ii[	4B7]
C56	C_0805	spbc_ii[	4B7]
C57	C_0805	spbc_ii[	5D7]
C58	C_0805	spbc_ii[	6C1]
C59	C_0805	spbc_ii[	5D3]
C60	C_0805	spbc_ii[	9D7]
C61	C_0805	spbc_ii[	3B6]
C62	C_0805	spbc_ii[	9D7]
C63	C_0805	spbc_ii[	3C7]
C64	C_0805	spbc_ii[	4B8]
C65	C_0805	spbc_ii[	4B8]
C66	C_0805	spbc_ii[	3B4]
C67	C_0805	spbc_ii[	9C7]
C68	C_0805	spbc_ii[	3C7]
C69	C_0805	spbc_ii[	2A2]
C70	C_0805	spbc_ii[	7C6]
C71	C_0805	spbc_ii[	7B5]
C72	C_0805	spbc_ii[	3C6]
C73	C_0805	spbc_ii[	3C6]
C74	C_1206	spbc_ii[	6A2]
C75	C_0805	spbc_ii[	8D6]
C76	C_0805	spbc_ii[	8D3]
C77	C_0805	spbc_ii[	3C6]
C78	C_0805	spbc_ii[	3C7]
C79	C_0805	spbc_ii[	5B4]
C80	C_0805	spbc_ii[	5A4]
C81	C_0805	spbc_ii[	10C4]
C82	C_0805	spbc_ii[	7B2]
C83	C_0805	spbc_ii[	7C2]
C84	C_0805	spbc_ii[	7A2]
C85	C_0805	spbc_ii[	7B2]
C86	C_0805	spbc_ii[	2D3]

Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

Otis
A United Technologies Company

CIRCUIT DIAGRAM FOR

SPBC_II
48V

CAD GENERATED
CADENCE-CONCEPT

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE	
CHK	J.Gewinner	2009-09-29	
APPD	H.Horbruegger	SHEETS	
AUTH	CA47A-000554	SHEET 12	

OECB_A3
REV 2004-09-06

CR-13 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE13

C87	C_0805	spbc_ii[	5A2]
D1	10BQ060_SMD	spbc_ii[	5C5]
D2	10BQ060_SMD	spbc_ii[	5D5]
D3	50WQ06FN_DPAK	spbc_ii[	6B6]
D4	MBRS360T3_SMD	spbc_ii[	5D1]
D5	MBRS360T3_SMD	spbc_ii[	5D6]
D6	MBRS360T3_SMD	spbc_ii[	5D2]
D7	D1F60_SMD	spbc_ii[	5D3]
D8	BAV99_SMD	spbc_ii[	5C7]
D9	D1F60_SMD	spbc_ii[	5C7]
D10	D1F60_SMD	spbc_ii[	10B2]
D11	D1F60_SMD	spbc_ii[	10B2]
D12	BAV99_SMD	spbc_ii[	7C2]
D13	BAV99_SMD	spbc_ii[	9C2]
D14	BAV99_SMD	spbc_ii[	9B2]
D15	BAV99_SMD	spbc_ii[	10C7]
D16	BAV99_SMD	spbc_ii[	10C7]
D17	STPS41L60_THT	spbc_ii[	5A5]
D17_CAP	THERMO_CAP_MECH_PART_MECH_PART	spbc_ii[	5C3]
D18	BAV99_SMD	spbc_ii[	10B4]
D19	D1F60_SMD	spbc_ii[	10A5]
D20	BAV99_SMD	spbc_ii[	10C6]
D21	BAV99_SMD	spbc_ii[	9A2]
D22	BAV99_SMD	spbc_ii[	10B3]
D23	LCDA12_SOIC	spbc_ii[	8D4 8D4]
D24	TMMBAT42_MELF	spbc_ii[	5B4]
D25	BAV99_SMD	spbc_ii[	10D2]
D26	TMMBAT42_MELF	spbc_ii[	5A4]
D27	BAV99_SMD	spbc_ii[	10C1]
D28	BAV99_SMD	spbc_ii[	7B3]
D29	BAV99_SMD	spbc_ii[	7A3]
D30	BAV99_SMD	spbc_ii[	10D1]
D31	BAV99_SMD	spbc_ii[	9C2]
D32	BAV99_SMD	spbc_ii[	9D2]
D33	BAV99_SMD	spbc_ii[	9B6]
D34	MCL4448_SMD	spbc_ii[	6A4]
D35	D1F60_SMD	spbc_ii[	10B7]
D36	D1F60_SMD	spbc_ii[	9B2]
D37	50WQ06FN_DPAK	spbc_ii[	6A3]
D38	D1F60_SMD	spbc_ii[	9B2]
D39	D1F60_SMD	spbc_ii[	9A2]
D40	D1F60	spbc_ii[	5C8]
D41	D1F60_SMD	spbc_ii[	9A2]
DIS1	7SEGMENT_HDSP_E101	spbc_ii[	4B3]
DIS2	7SEGMENT_HDSP_E101	spbc_ii[	4C3]
F1	FUSE_FLR	spbc_ii[	6A7]
FE_F1	FUSE_MECH_PART_MECH_PART	spbc_ii[	6A7]
FLASH1	FLASH_SMD	spbc_ii[	9D2]
FLASH2	FLASH_SMD	spbc_ii[	9B2]
FLASH3	FLASH_SMD	spbc_ii[	9C2]
FLASH4	FLASH_SMD	spbc_ii[	10B4]
FLASH5	FLASH_SMD	spbc_ii[	9B2]
FLASH6	FLASH_SMD	spbc_ii[	9A2]
FLASH7	FLASH_SMD	spbc_ii[	7B6]
FLASH8	FLASH_SMD	spbc_ii[	9C2]
FLASH9	FLASH_SMD	spbc_ii[	9D2]
FLASH10	FLASH_SMD	spbc_ii[	9B6]
HS1	HEATSINK_TO220_533DUAL	spbc_ii[	5C3]
J1	SL_BLOCK2_DEFAULT	spbc_ii[	9B7]
J2	SL_BLOCK2_DEFAULT	spbc_ii[	9B7]
J3	SL_BLOCK2_DEFAULT	spbc_ii[	9B8]
L1	L_KOMBI	spbc_ii[	6A6]
L2	L_SMD	spbc_ii[	5D6]
L3	L_SMD	spbc_ii[	5D3]
L4	L_DOUBLE	spbc_ii[	8C5]
L5	L_THT_DOUBLE2	spbc_ii[	5A4]
LED1	LED_RED_SSMD	spbc_ii[	4C8]
LED2	LED_RED_SSMD	spbc_ii[	4C8]
LED3	LED_RED_SSMD	spbc_ii[	4C8]
LED4	LED_RED_SSMD	spbc_ii[	4C8]
LED5	LED_RED_SSMD	spbc_ii[	4C8]
LED6	LED_RED_SSMD	spbc_ii[	4C8]
LED7	LED_RED_SSMD	spbc_ii[	4D8]
LED8	LED_RED_SSMD	spbc_ii[	4D8]
LED9	LED_RED_SSMD	spbc_ii[	4D3]
LED10	LED_RED_SSMD	spbc_ii[	4D3]
LED11	LED_RED_SSMD	spbc_ii[	4A8]
LED12	LED_RED_SSMD	spbc_ii[	6D5]
LED13	LED_RED_SSMD	spbc_ii[	6C5]
LED14	LED_RED_SSMD	spbc_ii[	6C5]
LED15	LED_RED_SSMD	spbc_ii[	4D3]
LED16	LED_RED_SSMD	spbc_ii[	4A6]
LED17	LED_RED_SSMD	spbc_ii[	4B5]
LED18	LED_RED_SSMD	spbc_ii[	4B6]
LED19	LED_RED_SSMD	spbc_ii[	4B5]
LED20	LED_RED_SSMD	spbc_ii[	4B5]
LED21	LED_RED_SSMD	spbc_ii[	4C6]
LED22	LED_RED_SSMD	spbc_ii[	4C5]
LED23	LED_RED_SSMD	spbc_ii[	4C6]
LED24	LED_RED_SSMD	spbc_ii[	4D3]
LED25	LED_RED_SSMD	spbc_ii[	4D3]
LED26	LED_GREEN_SSMD	spbc_ii[	4D5]
LED27	LED_GREEN_SSMD	spbc_ii[	4D6]
LED28	LED_GREEN_SSMD	spbc_ii[	4D5]
LED29	LED_GREEN_SSMD	spbc_ii[	4D6]
LED30	LED_GREEN_SSMD	spbc_ii[	4D5]
LED31	LED_GREEN_SSMD	spbc_ii[	4C5]
LED32	LED_GREEN_SSMD	spbc_ii[	4C6]
LED33	LED_GREEN_SSMD	spbc_ii[	4C5]
LED34	LED_RED_SSMD	spbc_ii[	5B7]
LED35	LED_RED_SSMD	spbc_ii[	5B7]
LED36	LED_RED_SSMD	spbc_ii[	4D8]
LED37	LED_RED_SSMD	spbc_ii[	4A5]
LED38	LED_RED_SSMD	spbc_ii[	4D8]
LED39	LED_RED_SSMD	spbc_ii[	4A6]
LED40	LED_RED_SSMD	spbc_ii[	4A5]
LED41	LED_RED_SSMD	spbc_ii[	7B6]

Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

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CIRCUIT DIAGRAM FOR

SPBC_II
48V

CAD GENERATED
CADENCE-CONCEPT

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 13

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CR-14 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE14

LED42	LED_RED_SSMD	spbc_ii[	4D8]
LED43	LED_RED_SSMD	spbc_ii[	4D8]
NP1	NP_02_THT	spbc_ii[	6A6]
NP2	NP_02_THT	spbc_ii[	6A7]
OC1	TLP181_SOIC	spbc_ii[	10A5]
OC2	TLP181_SOIC	spbc_ii[	5A6]
P1	CON2_WAGO722_732	spbc_ii[	5A8]
P2	CON8_WAGO_VP5MM	spbc_ii[	5B8]
P3	CON2_WAGO_VP5MM	spbc_ii[	7C7]
P4	CON4_WAGO_VP5MM	spbc_ii[	6A8]
P5	CON2_FK_MPT	spbc_ii[	7A6]
P6	CON6_MOLEX95003	spbc_ii[	7A7]
P7	CON5_WAGO722_135	spbc_ii[	7A1]
P8	CON9_SUBD_S	spbc_ii[	8A7]
P9	PCON2_THT	spbc_ii[	7B1]
P10	CON5_WAGO_VP5MM	spbc_ii[	7B7]
P100	CON9_WAGO_VP5MM	spbc_ii[	5A8]
PE_1	CON1_DK4_3	spbc_ii[	7B1]
Q1	FZT792A_SMD	spbc_ii[	6A5]
Q2	IRF4905S_D2PAK	spbc_ii[	6A5]
Q3	FMMT3904_SMD	spbc_ii[	6A5]
Q4	FMMT3904_SMD	spbc_ii[	6B4]
Q5	BCR505_SMD	spbc_ii[	5C8]
Q6	BC817_SMD	spbc_ii[	10C7]
Q7	IRFR9120_SMD	spbc_ii[	5A4]
Q8	BCR505_SMD	spbc_ii[	5A3]
Q9	SUP90N06_6M0P_THT	spbc_ii[	5B5]
Q10	IRF6215S_D2PAK	spbc_ii[	5A7]
Q11	IRF6215S_D2PAK	spbc_ii[	5A6]
Q12	FZT792A_SMD	spbc_ii[	6B5]
Q292	BC807	spbc_ii[	5B5]
R1	R_0805	spbc_ii[	6C2]
R2	R_0805	spbc_ii[	6A5]
R3	R_0805	spbc_ii[	6A4]
R4	R_0805	spbc_ii[	8B3]
R5	R_MINI-MELF	spbc_ii[	8B4]
R6	R_MINI-MELF	spbc_ii[	8B5]
R7	R_0805	spbc_ii[	6B2]
R8	R_0805	spbc_ii[	6B2]
R9	R_0805	spbc_ii[	6B2]
R10	R_0805	spbc_ii[	6B2]
R11	R_0805	spbc_ii[	6B2]
R12	R_0805	spbc_ii[	6D1]
R13	R_0805	spbc_ii[	6D1]
R14	R_0805	spbc_ii[	7C6]
R15	R_0805	spbc_ii[	8B5]
R16	R_0805	spbc_ii[	6A5]
R17	R_0805	spbc_ii[	6A5]
R18	R_0805	spbc_ii[	6B4]
R19	R_0805	spbc_ii[	6B4]
R20	R_0805	spbc_ii[	6B4]
R21	R_2512	spbc_ii[	6B6]
R22	R_2512	spbc_ii[	6B6]
R23	R_2512	spbc_ii[	6B6]
R24	R_2512	spbc_ii[	6B6]
R25	R_NTC_THT	spbc_ii[	6C1]
R26	R_0805	spbc_ii[	6C4]
R27	R_0805	spbc_ii[	6D2]
R28	R_0805	spbc_ii[	6C4]
R29	R_0805	spbc_ii[	6C4]
R30	R_0805	spbc_ii[	6B3]
R31	R_MINI-MELF	spbc_ii[	6C1]
R32	R_0805	spbc_ii[	3B3]
R33	R_0805	spbc_ii[	5C7]
R34	R_0805	spbc_ii[	5C7]
R35	R_MINI-MELF	spbc_ii[	10C8]
R36	R_MINI-MELF	spbc_ii[	10C8]
R37	R_MINI-MELF	spbc_ii[	10C8]
R38	R_MINI-MELF	spbc_ii[	10C8]
R39	R_MINI-MELF	spbc_ii[	10C8]
R40	R_MINI-MELF	spbc_ii[	10C8]
R41	R_MINI-MELF	spbc_ii[	10C8]
R42	R_MINI-MELF	spbc_ii[	10C8]
R43	R_MINI-MELF	spbc_ii[	10C8]
R44	R_0805	spbc_ii[	6C8]
R45	R_0805	spbc_ii[	6C8]
R46	R_0805	spbc_ii[	6C7]
R47	R_0805	spbc_ii[	6C7]
R48	R_0805	spbc_ii[	6C7]
R49	R_0805	spbc_ii[	6C6]
R50	R_0805	spbc_ii[	6C6]
R51	R_0805	spbc_ii[	6C7]
R52	R_0805	spbc_ii[	6C7]
R53	R_0805	spbc_ii[	6C7]
R54	R_0805	spbc_ii[	6C8]
R55	R_0805	spbc_ii[	6C8]
R56	R_0805	spbc_ii[	3B3]
R57	R_0805	spbc_ii[	10D7]
R58	R_0805	spbc_ii[	10A4]
R59	R_0805	spbc_ii[	5A3]
R60	R_0805	spbc_ii[	7A4]
R61	R_0805	spbc_ii[	7C4]
R62	R_0805	spbc_ii[	5B2]
R63	R_0805	spbc_ii[	5B2]
R64	R_0805	spbc_ii[	5B2]
R65	R_0805	spbc_ii[	5B3]
R66	R_0805	spbc_ii[	5B3]
R67	R_0805	spbc_ii[	5B2]
R68	R_0805	spbc_ii[	5B3]
R69	R_0805	spbc_ii[	5B2]
R70	R_0805	spbc_ii[	5B2]
R71	R_0805	spbc_ii[	5B1]
R71B	R_0805	spbc_ii[	5B1]
R72	R_MINI-MELF	spbc_ii[	5A7]
R73	R_MINI-MELF	spbc_ii[	5A6]
R74	R_0805	spbc_ii[	7C3]
R75	R_0805	spbc_ii[	7B3]
R76	R_0805	spbc_ii[	7C3]
R77	R_0805	spbc_ii[	7A3]
R78	R_MINI-MELF	spbc_ii[	5B4]

Changes

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CIRCUIT DIAGRAM FOR

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BERLIN, GERMANY

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APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 14

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REV 2004-09-06

CR-15 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE15

R79	R_0805	spbc_ii[	5B2]
R80	R_0805	spbc_ii[	7C3]
R81	R_MINI-MELF	spbc_ii[	5B4]
R82	R_0805	spbc_ii[	7B3]
R83	R_MINI-MELF	spbc_ii[	10C3]
R84	R_4527	spbc_ii[	5B5]
R85	R_4527	spbc_ii[	5C6]
R86	R_0805	spbc_ii[	5A1]
R87	R_0805	spbc_ii[	5A1]
R88	R_0805	spbc_ii[	5C5]
R89	R_NTC_THT	spbc_ii[	2D2]
R90	R_0805	spbc_ii[	10D3]
R91	R_0805	spbc_ii[	10D2]
R92	R_0805	spbc_ii[	10C1]
R93	R_0805	spbc_ii[	10C1]
R94	R_4527	spbc_ii[	5B6]
R95	R_4527	spbc_ii[	5C5]
R96	R_MINI-MELF	spbc_ii[	5A6]
R97	R_0805	spbc_ii[	6A4]
R98	R_0805	spbc_ii[	6B4]
R99	R_0805	spbc_ii[	6B4]
R100	R_0805	spbc_ii[	6B4]
R101	R_0805	spbc_ii[	6B4]
R102	R_0805	spbc_ii[	6C2]
R103	R_0805	spbc_ii[	5C3]
R104	R_MINI-MELF	spbc_ii[	6A6]
R105	R_MINI-MELF	spbc_ii[	6A3]
R106	R_MINI-MELF	spbc_ii[	6A3]
R107	R_MINI-MELF	spbc_ii[	6A3]
R108	R_0805	spbc_ii[	6B5]
R109	R_0805	spbc_ii[	6D2]
R110	R_0805	spbc_ii[	4A7]
R111	R_0805	spbc_ii[	4D3]
R112	R_0805	spbc_ii[	4D7]
R113	R_0805	spbc_ii[	4C7]
R114	R_0805	spbc_ii[	4C7]
R115	R_0805	spbc_ii[	4C7]
R116	R_0805	spbc_ii[	4D3]
R117	R_0805	spbc_ii[	6D4]
R118	R_0805	spbc_ii[	4D3]
R119	R_0805	spbc_ii[	4D7]
R120	R_0805	spbc_ii[	4C7]
R121	R_0805	spbc_ii[	4C7]
R122	R_0805	spbc_ii[	4C7]
R123	R_0805	spbc_ii[	9C3]
R124	R_0805	spbc_ii[	9D4]
R125	R_MINI-MELF	spbc_ii[	6A6]
R126	R_MINI-MELF	spbc_ii[	6A6]
R127	R_MINI-MELF	spbc_ii[	6A6]
R128	R_MINI-MELF	spbc_ii[	6B5]
R129	R_0805	spbc_ii[	9D6]
R130	R_0805	spbc_ii[	9C4]
R131	R_0805	spbc_ii[	4A2]
R132	R_0805	spbc_ii[	4B2]
R133	R_0805	spbc_ii[	4B2]
R134	R_0805	spbc_ii[	4B2]
R135	R_0805	spbc_ii[	4A2]
R136	R_MINI-MELF	spbc_ii[	6B6]
R137	R_MINI-MELF	spbc_ii[	6B6]
R138	R_MINI-MELF	spbc_ii[	6B6]
R139	R_0805	spbc_ii[	6B2]
R140	R_0805	spbc_ii[	6D4]
R141	R_0805	spbc_ii[	6C4]
R142	R_0805	spbc_ii[	6C4]
R143	R_0805	spbc_ii[	9D5]
R144	R_0805	spbc_ii[	9C3]
R145	R_0805	spbc_ii[	4C5]
R146	R_0805	spbc_ii[	4C5]
R147	R_0805	spbc_ii[	4D5]
R148	R_0805	spbc_ii[	4D5]
R149	R_0805	spbc_ii[	5D8]
R150	R_0805	spbc_ii[	5D7]
R151	R_0805	spbc_ii[	3B3]
R152	R_0805	spbc_ii[	3B3]
R153	R_0805	spbc_ii[	3A3]
R154	R_0805	spbc_ii[	3B5]
R155	R_0805	spbc_ii[	3B6]
R156	R_0805	spbc_ii[	6C6]
R157	R_0805	spbc_ii[	6C7]
R158	R_0805	spbc_ii[	6C7]
R159	R_0805	spbc_ii[	6C7]
R160	R_0805	spbc_ii[	6C8]
R161	R_0805	spbc_ii[	6C8]
R162	R_0805	spbc_ii[	5D4]
R163	R_0805	spbc_ii[	4A2]
R164	R_0805	spbc_ii[	4A2]
R165	R_0805	spbc_ii[	4A2]
R166	R_0805	spbc_ii[	4C5]
R167	R_0805	spbc_ii[	4B5]
R168	R_0805	spbc_ii[	4B5]
R169	R_0805	spbc_ii[	4A5]
R170	R_0805	spbc_ii[	4C5]
R171	R_0805	spbc_ii[	4D5]
R172	R_0805	spbc_ii[	4D5]
R173	R_0805	spbc_ii[	4D5]
R174	R_0805	spbc_ii[	4D3]
R175	R_0805	spbc_ii[	5D7]
R176	R_0805	spbc_ii[	5D7]
R177	R_0805	spbc_ii[	7D3]
R178	R_0805	spbc_ii[	7D3]
R179	R_0805	spbc_ii[	3B3]
R180	R_0805	spbc_ii[	5D4]
R181	R_0805	spbc_ii[	9A3]
R182	R_0805	spbc_ii[	4C5]
R183	R_0805	spbc_ii[	4C5]
R184	R_0805	spbc_ii[	4B5]
R185	R_0805	spbc_ii[	4B5]
R186	R_0805	spbc_ii[	4B2]
R187	R_0805	spbc_ii[	4C2]
R188	R_0805	spbc_ii[	4C2]

Changes

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AUTH	CA47A-000554	SHEET 15

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CR-16 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE16

R189	R_0805	spbc_ii[	4C2]
R190	R_0805	spbc_ii[	7D2]
R191	R_0805	spbc_ii[	7D2]
R192	R_0805	spbc_ii[	3B3]
R193	R_0805	spbc_ii[	9A8]
R194	R_0805	spbc_ii[	3C3]
R195	R_0805	spbc_ii[	3C3]
R196	R_0805	spbc_ii[	3A6]
R197	R_0805	spbc_ii[	9B1]
R198	R_0805	spbc_ii[	9B1]
R199	R_0805	spbc_ii[	9D1]
R200	R_0805	spbc_ii[	5A7]
R201	R_0805	spbc_ii[	5A7]
R202	R_0805	spbc_ii[	4C2]
R203	R_0805	spbc_ii[	4C2]
R204	R_0805	spbc_ii[	4C2]
R205	R_0805	spbc_ii[	3C4]
R206	R_0805	spbc_ii[	3D4]
R207	R_0805	spbc_ii[	3D2]
R208	R_0805	spbc_ii[	3B7]
R209	R_0805	spbc_ii[	4D7]
R210	R_0805	spbc_ii[	4A5]
R211	R_0805	spbc_ii[	4D7]
R212	R_0805	spbc_ii[	5A7]
R213	R_0805	spbc_ii[	5A7]
R214	R_0805	spbc_ii[	2A4]
R215	R_0805	spbc_ii[	2A2]
R216	R_0805	spbc_ii[	2A7]
R217	R_0805	spbc_ii[	2C8]
R218	R_0805	spbc_ii[	2C8]
R219	R_0805	spbc_ii[	10C6]
R220	R_0805	spbc_ii[	10C6]
R221	R_0805	spbc_ii[	10B5]
R222	R_0805	spbc_ii[	10A4]
R223	R_0805	spbc_ii[	10B7]
R224	R_0805	spbc_ii[	3D3]
R225	R_0805	spbc_ii[	9C7]
R226	R_0805	spbc_ii[	9C7]
R227	R_0805	spbc_ii[	3C3]
R228	R_0805	spbc_ii[	9C2]
R229	R_0805	spbc_ii[	9B2]
R230	R_0805	spbc_ii[	9D2]
R231	R_0805	spbc_ii[	2C5]
R232	R_0805	spbc_ii[	2C5]
R233	R_0805	spbc_ii[	2C5]
R234	R_0805	spbc_ii[	10C6]
R235	R_0805	spbc_ii[	10B5]
R236	R_0805	spbc_ii[	10A5]
R237	R_0805	spbc_ii[	10A6]
R238	R_0805	spbc_ii[	2A7]
R239	R_0805	spbc_ii[	2A7]
R240	R_0805	spbc_ii[	9A1]
R241	R_0805	spbc_ii[	9A1]
R242	R_0805	spbc_ii[	9A6]
R243	R_0805	spbc_ii[	10B3]
R244	R_0805	spbc_ii[	10B6]
R245	R_0805	spbc_ii[	10B6]
R246	R_MINI-MELF	spbc_ii[	8C6]
R247	R_0805	spbc_ii[	8C6]
R248	R_0805	spbc_ii[	8C5]
R249	R_0805	spbc_ii[	10B3]
R250	R_0805	spbc_ii[	4A5]
R251	R_0805	spbc_ii[	4A5]
R252	R_0805	spbc_ii[	8D3]
R253	R_0805	spbc_ii[	4D1]
R254	R_0805	spbc_ii[	2C5]
R255	R_0805	spbc_ii[	7D4]
R256	R_0805	spbc_ii[	2B1]
R257	R_0805	spbc_ii[	10B5]
R258	R_0805	spbc_ii[	10C4]
R259	R_0805	spbc_ii[	10C3]
R260	R_0805	spbc_ii[	8D6]
R261	R_0805	spbc_ii[	8D5]
R262	R_MINI-MELF	spbc_ii[	8D6]
R263	R_0805	spbc_ii[	9A7]
R264	R_0805	spbc_ii[	9A6]
R265	R_0805	spbc_ii[	9A2]
R266	R_0805	spbc_ii[	9B2]
R267	R_0805	spbc_ii[	5B5]
R268	R_0805	spbc_ii[	10C3]
R269	R_0805	spbc_ii[	10C1]
R270	R_0805	spbc_ii[	10D3]
R271	R_0805	spbc_ii[	10C3]
R272	R_0805	spbc_ii[	10D3]
R273	R_0805	spbc_ii[	9B6]
R274	R_0805	spbc_ii[	9D1]
R275	R_0805	spbc_ii[	9C1]
R276	R_MINI-MELF	spbc_ii[	7A2]
R277	R_MINI-MELF	spbc_ii[	7C2]
R278	R_0805	spbc_ii[	5C5]
R279	R_0805	spbc_ii[	2D2]
R280	R_0805	spbc_ii[	4D7]
R281	R_0805	spbc_ii[	4D7]
R282	R_0805	spbc_ii[	5B6]
R283	R_0805	spbc_ii[	5B5]
R284	R_0805	spbc_ii[	5B5]
R285	R_MINI-MELF	spbc_ii[	5B6]
R286	R_0805	spbc_ii[	9B6]
R287	R_0805	spbc_ii[	9D2]
R288	R_0805	spbc_ii[	9C2]
R289	R_0805	spbc_ii[	5A7]
R290	R_0805	spbc_ii[	5A7]
R291	R_0805	spbc_ii[	5B4]
R293	R_0805	spbc_ii[	9D3]
R294	R_0805	spbc_ii[	9C3]
REL1	RELAY_POL2W_RT424012	spbc_ii[	6B7]
REL1	RELAY_POL2W_RT424012	spbc_ii[	10B8 10B7]
REL2	RELAY_POL2W_RT424012	spbc_ii[	5A5 5C8 5A6]
RV97	SIOV_S20K40_THT	spbc_ii[	5A7]
SW1	SMD_BUTTON_SMD	spbc_ii[	9D1]

Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

Otis
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CIRCUIT DIAGRAM FOR

SPBC_II 48V

CAD GENERATED
CADENCE-CONCEPT

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 16

OECB_A3
REV 2004-09-06

CR-17 : @PROJ_LIB.SPBC_II_48V(SCH_1):PAGE17

SW2	SMD_BUTTON_SMD	spbc_ii[	9B1]
SW3	SMD_BUTTON_SMD	spbc_ii[	9C1]
SW4	SMD_BUTTON_SMD_WHITE	spbc_ii[	10A3]
SW5	SMD_BUTTON_SMD	spbc_ii[	9A6]
SW6	SMD_BUTTON_SMD	spbc_ii[	9B1]
SW7	SMD_BUTTON_SMD	spbc_ii[	9A1]
SW8	SMD_BUTTON_SMD_3ESH9	spbc_ii[	7B6]
SW9	SMD_BUTTON_SMD	spbc_ii[	9C1]
SW10	SMD_BUTTON_SMD	spbc_ii[	9D1]
SW11	SMD_BUTTON_SMD	spbc_ii[	9B6]
X1_Z1	SOCKET_MECH_PART_MECH_PART	spbc_ii[	2A6]
X2_Z2	SOCKET_MECH_PART_MECH_PART	spbc_ii[	2C8]
Z1	AM29F010_ENHANCED	spbc_ii[	2B6]
Z1_PROGRAMED	SOFTWARE_MECH_PART_MECH_PART	spbc_ii[	2A6]
Z2	GAL22V10_PLCC	spbc_ii[	2D6]
Z2_PROGRAMED	SOFTWARE_MECH_PART_MECH_PART	spbc_ii[	2D8]
Z3	LM2595_5_SMD	spbc_ii[	5D5]
Z4	LM2595_5_SMD	spbc_ii[	5D2]
Z5	74HC595_SOIC	spbc_ii[	4B7]
Z6	74HCT573_SOIC	spbc_ii[	4D2]
Z7	75LBC180_SOIC	spbc_ii[	8A3]
Z8	BQ2031_SOIC	spbc_ii[	6C3]
Z9	74HC595_SOIC	spbc_ii[	4A4]
Z10	74HC595_SOIC	spbc_ii[	4D4]
Z11	74HC245_SOIC	spbc_ii[	9C4]
Z12	74HC02_SOIC	spbc_ii[	3B6]
Z12	74HC02_SOIC	spbc_ii[	5C7 5A3]
Z12	74HC02_SOIC	spbc_ii[	9C6]
Z13	74HC595_SOIC	spbc_ii[	4A2]
Z14	74HC595_SOIC	spbc_ii[	4B4]
Z15	LM317L_SOIC	spbc_ii[	5C7]
Z16	LM317L_SOIC	spbc_ii[	5D4]
Z17	MAX691_SOIC	spbc_ii[	3B4]
Z18	74HC14	spbc_ii[	3B6 3B7]
Z18	74HC14_SOIC	spbc_ii[	5C6]
Z18	74HC14_SOIC	spbc_ii[	9C6 9C6 9A4]
Z19	74HC245_SOIC	spbc_ii[	9B4]
Z20	74HC595_SOIC	spbc_ii[	4B2]
Z21	74HC595_SOIC	spbc_ii[	4D7]
Z22	24C02_SOIC	spbc_ii[	3C5]
Z23	LM339_SOIC	spbc_ii[	3C3]
Z23	LM339_SOIC	spbc_ii[	4A7]
Z23	LM339_SOIC	spbc_ii[	9C8 9A7]
Z24	74AC573_SOIC	spbc_ii[	2B4]
Z25	CRYSTAL_OSC_VX-3E	spbc_ii[	2A1]
Z26	128KX8SRAM_SOIC	spbc_ii[	2B8]
Z27	74HC14_SOIC	spbc_ii[	7A5 7C5 7D4 7A4 7C4]
Z27	74HC14_SOIC	spbc_ii[	10A6]
Z28	LM339_SOIC	spbc_ii[	7C6 7C3 7A3]
Z28	LM339_SOIC	spbc_ii[	10B7]
Z29	TJA1050_SOIC	spbc_ii[	8C3]
Z30	C505C_QFP	spbc_ii[	2C1]
Z31	UC3843D_SOIC	spbc_ii[	5B3]
Z32	LM339_SOIC	spbc_ii[	10B5 10C4 10C5 10C2]
Z33	OP284F_SOIC	spbc_ii[	5C4 5A1]
Z293	SMBJ12A_SMD	spbc_ii[	5A7]

Changes

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CIRCUIT DIAGRAM FOR

SPBC_II
48V

CAD GENERATED
CADENCE-CONCEPT

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE	
CHK	J.Gewinner	2009-09-29	
APPD	H.Horbruegger	SHEETS	
AUTH	CA47A-000554	SHEET 17	

OECB_A3
REV 2004-09-06

Title: Basenet Report
Design: spbc_ii_48v
Date: Oct 21 16:05:59 2013

Base nets and synonyms for proj_lib.SPBC_II_48V(@proj_lib.spbc_ii_48v(sch_1))

Base Signal	Synonyms	Location([Zone][dir])
+5V	+5V - @proj_lib.SPBC_II_48V	5D4> 6A3< 6B4 6C4 6C4 6D1
+12V	+12V - @proj_lib.SPBC_II_48V	5D3> 10B8<
+22V	+22V - @proj_lib.SPBC_II_48V	5C8> 10B1<
+UB	+UB - @proj_lib.SPBC_II_48V	10B3> 7A3< 7B3 7C5< 10B1 10B7 10C5
A<0>	A<0> - @proj_lib.SPBC_II_48V	2A5 2A5 2A8 2D5
A<15..0>	A<15..0> - @proj_lib.SPBC_II_48V	2C8
A<1>	A<1> - @proj_lib.SPBC_II_48V	2A5 2A5 2A8 2D5
A<2>	A<2> - @proj_lib.SPBC_II_48V	2A8 2B5 2B5
A<3>	A<3> - @proj_lib.SPBC_II_48V	2B5 2B5 2B8
A<4>	A<4> - @proj_lib.SPBC_II_48V	2B5 2B5 2B8
A<5>	A<5> - @proj_lib.SPBC_II_48V	2B5 2B5 2B8
A<6>	A<6> - @proj_lib.SPBC_II_48V	2B5 2B5 2B8
A<7>	A<7> - @proj_lib.SPBC_II_48V	2B5 2B5 2B8
A<8>	A<8> - @proj_lib.SPBC_II_48V	2B5 2B8 2C2
A<9>	A<9> - @proj_lib.SPBC_II_48V	2B5 2B8 2C2
A<10>	A<10> - @proj_lib.SPBC_II_48V	2B5 2B8 2C2
A<11>	A<11> - @proj_lib.SPBC_II_48V	2B5 2B8 2C2
A<12>	A<12> - @proj_lib.SPBC_II_48V	2B5 2B8 2C2
A<13>	A<13> - @proj_lib.SPBC_II_48V	2B5 2B8 2C2
A<14>	A<14> - @proj_lib.SPBC_II_48V	2B8 2C2 2C5
A<15>	A<15> - @proj_lib.SPBC_II_48V	2C2 2C5 2D5
AD<0>	AD<0> - @proj_lib.SPBC_II_48V	2A4 2B2 2B6 2B7 4D1 9B5 9C5
AD<7..0>	AD<7..0> - @proj_lib.SPBC_II_48V	4D1<> 9A4<> 2A5
AD<1>	AD<1> - @proj_lib.SPBC_II_48V	2A4 2B2 2B6 2B7 4D1 9B5 9C5
AD<2>	AD<2> - @proj_lib.SPBC_II_48V	2B2 2B4 2B6 2B7 4D1 9B5 9C5
AD<3>	AD<3> - @proj_lib.SPBC_II_48V	2B2 2B4 2B6 2B7 4D1 9B5 9C5
AD<4>	AD<4> - @proj_lib.SPBC_II_48V	2B2 2B4 2B6 2B7 4D1 9B5 9C5
AD<5>	AD<5> - @proj_lib.SPBC_II_48V	2B2 2B4 2B6 2B7 4D1 9B5 9C5
AD<6>	AD<6> - @proj_lib.SPBC_II_48V	2B2 2B4 2B6 2B7 4D1 9B5 9D5
AD<7>	AD<7> - @proj_lib.SPBC_II_48V	2B2 2B4 2B6 2B7 4D1 9B5 9D5
ALE	ALE - @proj_lib.SPBC_II_48V	2B3> 2A3<
BAT+	BAT+ - @proj_lib.SPBC_II_48V	6A7> 5A1< 6C1< 6C6< 10B1< 10B8<
BAT-	BAT- - @proj_lib.SPBC_II_48V	5A5 5C1< 6A7 6C1<
BAT_FAULT*	BAT_FAULT* - @proj_lib.SPBC_II_48V	9A5> 9B3<
BAT_MODE*	BAT_MODE* - @proj_lib.SPBC_II_48V	3B8> 9C3< 10B4<
BAT_PWM+	BAT_PWM+ - @proj_lib.SPBC_II_48V	6A7> 5A3<
BAT_PWM-	BAT_PWM- - @proj_lib.SPBC_II_48V	6B8> 5A1 5B3 5C1<
BRE_EN*	BRE_EN* - @proj_lib.SPBC_II_48V	2C3> 5C6<
BRE_REQUEST*	BRE_REQUEST* - @proj_lib.SPBC_II_48V	10A7> 5A1< 5C6< 9C3<
BUZZER*	BUZZER* - @proj_lib.SPBC_II_48V	4D3> 7C5<
CAN_H	CAN_H - @proj_lib.SPBC_II_48V	5B7<> 8C7<> 5A8
CAN_L	CAN_L - @proj_lib.SPBC_II_48V	5B7<> 8D7<> 5A8
CS_IN1*	CS_IN1* - @proj_lib.SPBC_II_48V	2D7> 9C3<
CS_IN2*	CS_IN2* - @proj_lib.SPBC_II_48V	2D7> 9A3<
CS_OUT1	CS_OUT1 - @proj_lib.SPBC_II_48V	2C7> 4D1<
DUMMY_2_1	DUMMY_2_1 - @proj_lib.SPBC_II_48V	2B2
DUMMY_2_2	DUMMY_2_2 - @proj_lib.SPBC_II_48V	2D6
DUMMY_2_3	DUMMY_2_3 - @proj_lib.SPBC_II_48V	2D6
DUMMY_2_4	DUMMY_2_4 - @proj_lib.SPBC_II_48V	2D6
DUMMY_3_1	DUMMY_3_1 - @proj_lib.SPBC_II_48V	3A4
DUMMY_3_2	DUMMY_3_2 - @proj_lib.SPBC_II_48V	3B3
DUMMY_3_3	DUMMY_3_3 - @proj_lib.SPBC_II_48V	3B3
DUMMY_3_4	DUMMY_3_4 - @proj_lib.SPBC_II_48V	3B4
DUMMY_3_5	DUMMY_3_5 - @proj_lib.SPBC_II_48V	3B4
DUMMY_3_6	DUMMY_3_6 - @proj_lib.SPBC_II_48V	3A4
DUMMY_4_1	DUMMY_4_1 - @proj_lib.SPBC_II_48V	4B2
DUMMY_4_2	DUMMY_4_2 - @proj_lib.SPBC_II_48V	4B2
DUMMY_4_3	DUMMY_4_3 - @proj_lib.SPBC_II_48V	4C2
DUMMY_4_4	DUMMY_4_4 - @proj_lib.SPBC_II_48V	4C2
DUMMY_4_5	DUMMY_4_5 - @proj_lib.SPBC_II_48V	4D3>
DUMMY_4_6	DUMMY_4_6 - @proj_lib.SPBC_II_48V	4D3>
DUMMY_4_7	DUMMY_4_7 - @proj_lib.SPBC_II_48V	4D3>
DUMMY_4_8	DUMMY_4_8 - @proj_lib.SPBC_II_48V	4A5
DUMMY_4_9	DUMMY_4_9 - @proj_lib.SPBC_II_48V	4B5
DUMMY_4_10	DUMMY_4_10 - @proj_lib.SPBC_II_48V	4D5
DUMMY_4_11	DUMMY_4_11 - @proj_lib.SPBC_II_48V	4D5>
DUMMY_4_12	DUMMY_4_12 - @proj_lib.SPBC_II_48V	4D5
DUMMY_4_13	DUMMY_4_13 - @proj_lib.SPBC_II_48V	4B7
DUMMY_4_14	DUMMY_4_14 - @proj_lib.SPBC_II_48V	4B8>
DUMMY_4_15	DUMMY_4_15 - @proj_lib.SPBC_II_48V	4D7
DUMMY_4_16	DUMMY_4_16 - @proj_lib.SPBC_II_48V	4D7>
DUMMY_5_1	DUMMY_5_1 - @proj_lib.SPBC_II_48V	5A5
DUMMY_5_2	DUMMY_5_2 - @proj_lib.SPBC_II_48V	5A5
DUMMY_6_1	DUMMY_6_1 - @proj_lib.SPBC_II_48V	6B7
DUMMY_7_1	DUMMY_7_1 - @proj_lib.SPBC_II_48V	7A7
DUMMY_7_2	DUMMY_7_2 - @proj_lib.SPBC_II_48V	7A7
DUMMY_7_3	DUMMY_7_3 - @proj_lib.SPBC_II_48V	7A7
DUMMY_7_4	DUMMY_7_4 - @proj_lib.SPBC_II_48V	7A7
DUMMY_7_5	DUMMY_7_5 - @proj_lib.SPBC_II_48V	7B7
DUMMY_8_1	DUMMY_8_1 - @proj_lib.SPBC_II_48V	8A4
DUMMY_8_2	DUMMY_8_2 - @proj_lib.SPBC_II_48V	8A4
DUMMY_8_3	DUMMY_8_3 - @proj_lib.SPBC_II_48V	8C2
DUMMY_9_1	DUMMY_9_1 - @proj_lib.SPBC_II_48V	9C6
DUMMY_9_2	DUMMY_9_2 - @proj_lib.SPBC_II_48V	9C6
DUMMY_9_3	DUMMY_9_3 - @proj_lib.SPBC_II_48V	9C6
DUMMY_9_4	DUMMY_9_4 - @proj_lib.SPBC_II_48V	9C8
DUMMY_10_1	DUMMY_10_1 - @proj_lib.SPBC_II_48V	10D2
DUMMY_10_2	DUMMY_10_2 - @proj_lib.SPBC_II_48V	10C1
DUMMY_10_3	DUMMY_10_3 - @proj_lib.SPBC_II_48V	10D1
DZI*	DZI* - @proj_lib.SPBC_II_48V	7D5> 2C3<
DZI+	DZI+ - @proj_lib.SPBC_II_48V	5B7> 5A8 7D2<
DZI_R*	DZI_R* - @proj_lib.SPBC_II_48V	7D5> 2C3<

Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

Otis
A United Technologies Company

CIRCUIT DIAGRAM FOR

SPBC_II
48V

CAD GENERATED
CADENCE-CONCEPT

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 18

OECB_A3
REV 2004-09-06

ENC_A	ENC_A - @proj_lib.SPBC_II_48V	7A6> 2B3<
ENC_B	ENC_B - @proj_lib.SPBC_II_48V	7C6> 2B3<
ENPWM*	ENPWM* - @proj_lib.SPBC_II_48V	5B6> 5A2<
F_BAT+	F_BAT+ - @proj_lib.SPBC_II_48V	6A7
LED_FAULT	LED_FAULT - @proj_lib.SPBC_II_48V	6D5> 9A3<
NTC	NTC - @proj_lib.SPBC_II_48V	6A7 6D1
OEF*	OEF* - @proj_lib.SPBC_II_48V	2D7> 2A7<
OER*	OER* - @proj_lib.SPBC_II_48V	2D7> 2A7<
PE	PE - @proj_lib.SPBC_II_48V	7A2 7B2 8B6<
PROG*	PROG* - @proj_lib.SPBC_II_48V	2C3> 2C4< 2D5<
PSEN*	PSEN* - @proj_lib.SPBC_II_48V	2B3> 2D5<
RB1	RB1 - @proj_lib.SPBC_II_48V	6C8> 6C1<
RB3	RB3 - @proj_lib.SPBC_II_48V	6D8> 6C2<
RD*	RD* - @proj_lib.SPBC_II_48V	2C3> 2D5<
REB	REB - @proj_lib.SPBC_II_48V	9A6> 5A8 5B7<
REB_BUT*	REB_BUT* - @proj_lib.SPBC_II_48V	9A8> 9C3<
REF2	REF2 - @proj_lib.SPBC_II_48V	10C2> 10B4< 10C4< 10C6<
RESET	RESET - @proj_lib.SPBC_II_48V	3A8> 2B1 2D5<
RS	RS - @proj_lib.SPBC_II_48V	8C2 8D3
RST*	RST* - @proj_lib.SPBC_II_48V	3B8> 4A1< 4A3< 4B1< 4B3< 4B6< 4C3< 4C6<
RXD	RXD - @proj_lib.SPBC_II_48V	8B3> 2C3<
RXDC	RXDC - @proj_lib.SPBC_II_48V	8C2> 2D3<
SCL	SCL - @proj_lib.SPBC_II_48V	3A8> 3C2<
SCLOCK	SCLOCK - @proj_lib.SPBC_II_48V	2C3> 3A2<
SDA*	SDA* - @proj_lib.SPBC_II_48V	3C4> 9D3<
SDOUT*	SDOUT* - @proj_lib.SPBC_II_48V	2C3> 3C2<
SPB+	SPB+ - @proj_lib.SPBC_II_48V	5B7> 3B2< 5A8 5D1< 6A1< 9A5< 10C5<
SQ1	SQ1 - @proj_lib.SPBC_II_48V	4B2
SQ2	SQ2 - @proj_lib.SPBC_II_48V	4A3> 4D4<
SQ3	SQ3 - @proj_lib.SPBC_II_48V	4C5
SQ4	SQ4 - @proj_lib.SPBC_II_48V	4B5
SQ5	SQ5 - @proj_lib.SPBC_II_48V	4A5> 4D6<
SQ6	SQ6 - @proj_lib.SPBC_II_48V	4C7
SQ7	SQ7 - @proj_lib.SPBC_II_48V	4B7> 3B5< 4A1< 4A3< 4B1< 4B3< 4B6< 4C3< 4C6<
SR_CLK	SR_CLK - @proj_lib.SPBC_II_48V	2C3> 4A1< 4A3< 4B1< 4B3< 4B6< 4C3< 4C6<
SR_DATA	SR_DATA - @proj_lib.SPBC_II_48V	2C3> 4C1<
TEMP	TEMP - @proj_lib.SPBC_II_48V	2D3> 2B3<
TEST_BUT*	TEST_BUT* - @proj_lib.SPBC_II_48V	9B7<> 9C3<
TXD	TXD - @proj_lib.SPBC_II_48V	2C3> 8B3<
TXDC	TXDC - @proj_lib.SPBC_II_48V	2C3> 8C2<
UPS_12V	UPS_12V - @proj_lib.SPBC_II_48V	10C8> 5A8 5B7< 5C8 5D4< 7A2< 7B2 7B2 7C2< 7C2 7C6<
VFB	VFB - @proj_lib.SPBC_II_48V	5A4> 5A8 5B1<
VREF1	VREF1 - @proj_lib.SPBC_II_48V	3D4> 4A6< 7C5< 9A7<
VREF_PWM	VREF_PWM - @proj_lib.SPBC_II_48V	5A1 5B2 5B4
WDCLK*	WDCLK* - @proj_lib.SPBC_II_48V	2B3> 3B2< 4A6<
WEF*	WEF* - @proj_lib.SPBC_II_48V	2D7> 2B7<
WER*	WER* - @proj_lib.SPBC_II_48V	2D7> 2B7<
WR*	WR* - @proj_lib.SPBC_II_48V	2C3> 2D5<

Changes

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APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 19

OECB_A3
REV 2004-09-06

Title: Cref Part Report
Design: spbc_ii_48v
Date: Oct 21 16:05:59 2013

B1	BUZZER_EFM_250	spbc_ii_48v[7C7]
BD1	BZX84C7V5_SMD	spbc_ii_48v[5D3]
BD2	1N4745_MELF	spbc_ii_48v[9B6]
BD3	BZX84C4V7_SMD	spbc_ii_48v[7D3]
BD4	1N4745_MELF	spbc_ii_48v[10B6]
BD5	BZX84C18_SMD	spbc_ii_48v[10B6]
BD6	BZX84C4V7_SMD	spbc_ii_48v[9A7]
BD7	BZX84C6V8_SMD	spbc_ii_48v[10C2]
BD8	SM6T22CA_SMD	spbc_ii_48v[7C2]
BD9	SM6T22CA_SMD	spbc_ii_48v[7B2]
BD10	BZX84C12_SMD	spbc_ii_48v[5A6]
BD11	1N4745_MELF	spbc_ii_48v[6A4]
BD12	SM6T6V8CA	spbc_ii_48v[8B5]
BD13	SM6T6V8CA_SMD	spbc_ii_48v[8B4]
BD14	SM6T6V8CA	spbc_ii_48v[8B4]
BD15	SM6T6V8CA	spbc_ii_48v[8B4]
BD16	SMBJ36CA_SMD	spbc_ii_48v[6A2]
BD17	SMBJ36CA_SMD	spbc_ii_48v[9A6]
BD18	SM6T22CA_SMD	spbc_ii_48v[7C7]
C1	C_0805	spbc_ii_48v[6C1]
C2	C_0805	spbc_ii_48v[6C2]
C3	CAP_VAG	spbc_ii_48v[5D2]
C4	CAP_VAG	spbc_ii_48v[5D5]
C5	CAP_VAD	spbc_ii_48v[8A5]
C6	CAP_VAE	spbc_ii_48v[5D6]
C7	CAP_VAE	spbc_ii_48v[5D3]
C8	C_0805	spbc_ii_48v[6B5]
C9	CAP_VAG	spbc_ii_48v[6A6]
C10	C_0805	spbc_ii_48v[6D2]
C11	C_0805	spbc_ii_48v[6D2]
C12	C_0805	spbc_ii_48v[6C2]
C13	CAP_VAD	spbc_ii_48v[5D7]
C14	CAP_TANTAL-B	spbc_ii_48v[5D8]
C15	CAP_TANTAL-B	spbc_ii_48v[5D4]
C16	CAP_TANTAL-B	spbc_ii_48v[5C7]
C17	C_0805	spbc_ii_48v[7D3]
C18	CAP_TANTAL-B	spbc_ii_48v[7D3]
C19	CAP_VAE	spbc_ii_48v[10D8]
C20	C_THT	spbc_ii_48v[5A5]
C21	CAP_THT	spbc_ii_48v[5A5]
C22	CAP_THT	spbc_ii_48v[5A5]
C23	CAP_THT	spbc_ii_48v[6A3]
C24	CAP_THT	spbc_ii_48v[6A3]
C25	C_0805	spbc_ii_48v[10A6]
C26	CAP_VAE	spbc_ii_48v[10B6]
C27	CAP_THT	spbc_ii_48v[5B1]
C28	C_0805	spbc_ii_48v[5B3]
C29	C_0805	spbc_ii_48v[5B3]
C30	C_0805	spbc_ii_48v[5B2]
C31	C_0805	spbc_ii_48v[9A7]
C32	C_0805	spbc_ii_48v[7B4]
C33	C_0805	spbc_ii_48v[7C4]
C34	CAP_TANTAL-B	spbc_ii_48v[10D3]
C35	C_0805	spbc_ii_48v[5B3]
C36	C_0805	spbc_ii_48v[5B1]
C37	CAP_THT	spbc_ii_48v[5B1]
C38	C_0805	spbc_ii_48v[5C4]
C39	C_0805	spbc_ii_48v[10D1]
C40	C_0805	spbc_ii_48v[6A4]
C41	C_0805	spbc_ii_48v[5D2]
C42	C_0805	spbc_ii_48v[5D5]
C43	C_0805	spbc_ii_48v[4B6]
C44	C_0805	spbc_ii_48v[8A6]
C45	C_0805	spbc_ii_48v[6D3]
C46	C_0805	spbc_ii_48v[6B3]
C47	C_0805	spbc_ii_48v[6C2]
C48	C_0805	spbc_ii_48v[4B8]
C49	C_0805	spbc_ii_48v[8A3]
C50	C_0805	spbc_ii_48v[4B7]
C51	C_0805	spbc_ii_48v[4B7]
C52	C_0805	spbc_ii_48v[3C7]
C53	C_0805	spbc_ii_48v[9D8]
C54	C_0805	spbc_ii_48v[6C2]
C55	C_0805	spbc_ii_48v[4B7]
C56	C_0805	spbc_ii_48v[4B7]
C57	C_0805	spbc_ii_48v[5D7]
C58	C_0805	spbc_ii_48v[6C1]
C59	C_0805	spbc_ii_48v[5D3]
C60	C_0805	spbc_ii_48v[9D7]
C61	C_0805	spbc_ii_48v[3B6]
C62	C_0805	spbc_ii_48v[9D7]
C63	C_0805	spbc_ii_48v[3C7]
C64	C_0805	spbc_ii_48v[4B8]
C65	C_0805	spbc_ii_48v[4B8]
C66	C_0805	spbc_ii_48v[3B4]
C67	C_0805	spbc_ii_48v[9C7]
C68	C_0805	spbc_ii_48v[3C7]
C69	C_0805	spbc_ii_48v[2A2]
C70	C_0805	spbc_ii_48v[7C6]
C71	C_0805	spbc_ii_48v[7B5]
C72	C_0805	spbc_ii_48v[3C6]
C73	C_0805	spbc_ii_48v[3C6]
C74	C_1206	spbc_ii_48v[6A2]
C75	C_0805	spbc_ii_48v[8D6]
C76	C_0805	spbc_ii_48v[8D3]
C77	C_0805	spbc_ii_48v[3C6]
C78	C_0805	spbc_ii_48v[3C7]
C79	C_0805	spbc_ii_48v[5B4]
C80	C_0805	spbc_ii_48v[5A4]
C81	C_0805	spbc_ii_48v[10C4]
C82	C_0805	spbc_ii_48v[7B2]
C83	C_0805	spbc_ii_48v[7C2]
C84	C_0805	spbc_ii_48v[7A2]
C85	C_0805	spbc_ii_48v[7B2]
C86	C_0805	spbc_ii_48v[2D3]

Changes

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CIRCUIT DIAGRAM FOR

SPBC_II
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DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 20

OECB_A3
REV 2004-09-06

C87	C_0805	spbc_ii_48v[5A2]	
D1	10BQ060_SMD	spbc_ii_48v[5C5]	
D2	10BQ060_SMD	spbc_ii_48v[5D5]	
D3	50WQ06FN_DPAK	spbc_ii_48v[6B6]	
D4	MBRS360T3_SMD	spbc_ii_48v[5D1]	
D5	MBRS360T3_SMD	spbc_ii_48v[5D6]	
D6	MBRS360T3_SMD	spbc_ii_48v[5D2]	
D7	D1F60_SMD	spbc_ii_48v[5D3]	
D8	BAV99_SMD	spbc_ii_48v[5C7]	
D9	D1F60_SMD	spbc_ii_48v[5C7]	
D10	D1F60_SMD	spbc_ii_48v[10B2]	
D11	D1F60_SMD	spbc_ii_48v[10B2]	
D12	BAV99_SMD	spbc_ii_48v[7C2]	
D13	BAV99_SMD	spbc_ii_48v[9C2]	
D14	BAV99_SMD	spbc_ii_48v[9B2]	
D15	BAV99_SMD	spbc_ii_48v[10C7]	
D16	BAV99_SMD	spbc_ii_48v[10C7]	
D17	STPS41L60_THT	spbc_ii_48v[5A5]	
D17_CAP	THERMO_CAP_MECH_PART_MECH_PART	spbc_ii_48v[5C3]	
D18	BAV99_SMD	spbc_ii_48v[10B4]	
D19	D1F60_SMD	spbc_ii_48v[10A5]	
D20	BAV99_SMD	spbc_ii_48v[10C6]	
D21	BAV99_SMD	spbc_ii_48v[9A2]	
D22	BAV99_SMD	spbc_ii_48v[10B3]	
D23	LCDA12_SOIC	spbc_ii_48v[8D4	8D4]
D24	TMMBAT42_MELF	spbc_ii_48v[5B4]	
D25	BAV99_SMD	spbc_ii_48v[10D2]	
D26	TMMBAT42_MELF	spbc_ii_48v[5A4]	
D27	BAV99_SMD	spbc_ii_48v[10C1]	
D28	BAV99_SMD	spbc_ii_48v[7B3]	
D29	BAV99_SMD	spbc_ii_48v[7A3]	
D30	BAV99_SMD	spbc_ii_48v[10D1]	
D31	BAV99_SMD	spbc_ii_48v[9C2]	
D32	BAV99_SMD	spbc_ii_48v[9D2]	
D33	BAV99_SMD	spbc_ii_48v[9B6]	
D34	MCL4448_SMD	spbc_ii_48v[6A4]	
D35	D1F60_SMD	spbc_ii_48v[10B7]	
D36	D1F60_SMD	spbc_ii_48v[9B2]	
D37	50WQ06FN_DPAK	spbc_ii_48v[6A3]	
D38	D1F60_SMD	spbc_ii_48v[9B2]	
D39	D1F60_SMD	spbc_ii_48v[9A2]	
D40	D1F60	spbc_ii_48v[5C8]	
D41	D1F60_SMD	spbc_ii_48v[9A2]	
D42	BAV103	spbc_ii_48v[5A7]	
D43	BAV103	spbc_ii_48v[5B7]	
D44	BAV103	spbc_ii_48v[5A7]	
D45	BAV103	spbc_ii_48v[5B7]	
DIS1	7SEGMENT_HDSP_E101	spbc_ii_48v[4B3]	
DIS2	7SEGMENT_HDSP_E101	spbc_ii_48v[4C3]	
F1	FUSE_FLR	spbc_ii_48v[6A7]	
FE_F1	FUSE_MECH_PART_MECH_PART	spbc_ii_48v[6A7]	
FLASH1	FLASH_SMD	spbc_ii_48v[9D2]	
FLASH2	FLASH_SMD	spbc_ii_48v[9B2]	
FLASH3	FLASH_SMD	spbc_ii_48v[9C2]	
FLASH4	FLASH_SMD	spbc_ii_48v[10B4]	
FLASH5	FLASH_SMD	spbc_ii_48v[9B2]	
FLASH6	FLASH_SMD	spbc_ii_48v[9A2]	
FLASH7	FLASH_SMD	spbc_ii_48v[7B6]	
FLASH8	FLASH_SMD	spbc_ii_48v[9C2]	
FLASH9	FLASH_SMD	spbc_ii_48v[9D2]	
FLASH10	FLASH_SMD	spbc_ii_48v[9B6]	
HS1	HEATSINK_TO220_533DUAL	spbc_ii_48v[5C3]	
J1	SL_BLOCK2_DEFAULT	spbc_ii_48v[9B7]	
J2	SL_BLOCK2_DEFAULT	spbc_ii_48v[9B7]	
J3	SL_BLOCK2_DEFAULT	spbc_ii_48v[9B8]	
L1	L_KOMBI	spbc_ii_48v[6A6]	
L2	L_SMD	spbc_ii_48v[5D6]	
L3	L_SMD	spbc_ii_48v[5D3]	
L4	L_DOUBLE	spbc_ii_48v[8C5]	
L5	L_THT_DOUBLE2	spbc_ii_48v[5A4]	
LED1	LED_RED_SSMD	spbc_ii_48v[4C8]	
LED2	LED_RED_SSMD	spbc_ii_48v[4C8]	
LED3	LED_RED_SSMD	spbc_ii_48v[4C8]	
LED4	LED_RED_SSMD	spbc_ii_48v[4C8]	
LED5	LED_RED_SSMD	spbc_ii_48v[4C8]	
LED6	LED_RED_SSMD	spbc_ii_48v[4C8]	
LED7	LED_RED_SSMD	spbc_ii_48v[4D8]	
LED8	LED_RED_SSMD	spbc_ii_48v[4D8]	
LED9	LED_RED_SSMD	spbc_ii_48v[4D3]	
LED10	LED_RED_SSMD	spbc_ii_48v[4D3]	
LED11	LED_RED_SSMD	spbc_ii_48v[4A8]	
LED12	LED_RED_SSMD	spbc_ii_48v[6D5]	
LED13	LED_RED_SSMD	spbc_ii_48v[6C5]	
LED14	LED_RED_SSMD	spbc_ii_48v[6C5]	
LED15	LED_RED_SSMD	spbc_ii_48v[4D3]	
LED16	LED_RED_SSMD	spbc_ii_48v[4A6]	
LED17	LED_RED_SSMD	spbc_ii_48v[4B5]	
LED18	LED_RED_SSMD	spbc_ii_48v[4B6]	
LED19	LED_RED_SSMD	spbc_ii_48v[4B5]	
LED20	LED_RED_SSMD	spbc_ii_48v[4B5]	
LED21	LED_RED_SSMD	spbc_ii_48v[4C6]	
LED22	LED_RED_SSMD	spbc_ii_48v[4C5]	
LED23	LED_RED_SSMD	spbc_ii_48v[4C6]	
LED24	LED_RED_SSMD	spbc_ii_48v[4D3]	
LED25	LED_RED_SSMD	spbc_ii_48v[4D3]	
LED26	LED_GREEN_SSMD	spbc_ii_48v[4D5]	
LED27	LED_GREEN_SSMD	spbc_ii_48v[4D6]	
LED28	LED_GREEN_SSMD	spbc_ii_48v[4D5]	
LED29	LED_GREEN_SSMD	spbc_ii_48v[4D6]	
LED30	LED_GREEN_SSMD	spbc_ii_48v[4D5]	
LED31	LED_GREEN_SSMD	spbc_ii_48v[4C5]	
LED32	LED_GREEN_SSMD	spbc_ii_48v[4C6]	
LED33	LED_GREEN_SSMD	spbc_ii_48v[4C5]	
LED34	LED_RED_SSMD	spbc_ii_48v[5B7]	
LED35	LED_RED_SSMD	spbc_ii_48v[5B7]	
LED36	LED_RED_SSMD	spbc_ii_48v[4D8]	
LED37	LED_RED_SSMD	spbc_ii_48v[4A5]	

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OTIS ENGINEERING CENTER
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CHK	J.Gewinner	2009-09-29	
APPD	H.Horbruegger	SHEETS	
AUTH	CA47A-000554	SHEET 21	

OECB_A3
REV 2004-09-06

LED38	LED_RED_SSMD	spbc_ii_48v[4D8]
LED39	LED_RED_SSMD	spbc_ii_48v[4A6]
LED40	LED_RED_SSMD	spbc_ii_48v[4A5]
LED41	LED_RED_SSMD	spbc_ii_48v[7B6]
LED42	LED_RED_SSMD	spbc_ii_48v[4D8]
LED43	LED_RED_SSMD	spbc_ii_48v[4D8]
NP1	NP_02_THT	spbc_ii_48v[6A6]
NP2	NP_02_THT	spbc_ii_48v[6A7]
OC1	TLP181_SOIC	spbc_ii_48v[10A5]
OC2	TLP181_SOIC	spbc_ii_48v[5A6]
P1	CON2_WAGO722_732	spbc_ii_48v[5A8]
P2	CON8_WAGO_VP5MM	spbc_ii_48v[5B8]
P3	CON2_WAGO_VP5MM	spbc_ii_48v[7C7]
P4	CON4_WAGO_VP5MM	spbc_ii_48v[6A8]
P5	CON2_FK_MPT	spbc_ii_48v[7A6]
P6	CON6_MOLEX95003	spbc_ii_48v[7A7]
P7	CON5_WAGO722_135	spbc_ii_48v[7A1]
P8	CON9_SUBD_S	spbc_ii_48v[8A7]
P9	PCON2_THT	spbc_ii_48v[7B1]
P10	CON5_WAGO_VP5MM	spbc_ii_48v[7B7]
P100	CON9_WAGO_VP5MM	spbc_ii_48v[5A8]
PE_1	CON1_DK4_3	spbc_ii_48v[7B1]
Q1	FZT792A_SMD	spbc_ii_48v[6A5]
Q2	IRF4905S_D2PAK	spbc_ii_48v[6A5]
Q3	FMMT3904_SMD	spbc_ii_48v[6A5]
Q4	FMMT3904_SMD	spbc_ii_48v[6B4]
Q5	BCR505_SMD	spbc_ii_48v[5C8]
Q6	BC817_SMD	spbc_ii_48v[10C7]
Q7	IRFR9120_SMD	spbc_ii_48v[5A4]
Q8	BCR505_SMD	spbc_ii_48v[5A3]
Q9	SUP90N06_6M0P_THT	spbc_ii_48v[5B5]
Q10	IRF6215S_D2PAK	spbc_ii_48v[5A7]
Q11	IRF6215S_D2PAK	spbc_ii_48v[5A6]
Q12	FZT792A_SMD	spbc_ii_48v[6B5]
Q292	BC807	spbc_ii_48v[5B5]
R1	R_0805	spbc_ii_48v[6C2]
R2	R_0805	spbc_ii_48v[6A5]
R3	R_0805	spbc_ii_48v[6A4]
R4	R_0805	spbc_ii_48v[8B3]
R5	R_MINI-MELF	spbc_ii_48v[8B4]
R6	R_MINI-MELF	spbc_ii_48v[8B5]
R7	R_0805	spbc_ii_48v[6B2]
R8	R_0805	spbc_ii_48v[6B2]
R9	R_0805	spbc_ii_48v[6B2]
R10	R_0805	spbc_ii_48v[6B2]
R11	R_0805	spbc_ii_48v[6B2]
R12	R_0805	spbc_ii_48v[6D1]
R13	R_0805	spbc_ii_48v[6D1]
R14	R_0805	spbc_ii_48v[7C6]
R15	R_0805	spbc_ii_48v[8B5]
R16	R_0805	spbc_ii_48v[6A5]
R17	R_0805	spbc_ii_48v[6A5]
R18	R_0805	spbc_ii_48v[6B4]
R19	R_0805	spbc_ii_48v[6B4]
R20	R_0805	spbc_ii_48v[6B4]

R21	R_2512	spbc_ii_48v[6B6]
R22	R_2512	spbc_ii_48v[6B6]
R23	R_2512	spbc_ii_48v[6B6]
R24	R_2512	spbc_ii_48v[6B6]
R25	R_NTC_THT	spbc_ii_48v[6C1]
R26	R_0805	spbc_ii_48v[6C4]
R27	R_0805	spbc_ii_48v[6D2]
R28	R_0805	spbc_ii_48v[6C4]
R29	R_0805	spbc_ii_48v[6C4]
R30	R_0805	spbc_ii_48v[6B3]
R31	R_MINI-MELF	spbc_ii_48v[6C1]
R32	R_0805	spbc_ii_48v[3B3]
R33	R_0805	spbc_ii_48v[5C7]
R34	R_0805	spbc_ii_48v[5C7]
R35	R_MINI-MELF	spbc_ii_48v[10C8]
R36	R_MINI-MELF	spbc_ii_48v[10C8]
R37	R_MINI-MELF	spbc_ii_48v[10C8]
R38	R_MINI-MELF	spbc_ii_48v[10C8]
R39	R_MINI-MELF	spbc_ii_48v[10C8]
R40	R_MINI-MELF	spbc_ii_48v[10C8]
R41	R_MINI-MELF	spbc_ii_48v[10C8]
R42	R_MINI-MELF	spbc_ii_48v[10C8]
R43	R_MINI-MELF	spbc_ii_48v[10C8]
R44	R_0805	spbc_ii_48v[6C8]
R45	R_0805	spbc_ii_48v[6C8]
R46	R_0805	spbc_ii_48v[6C7]
R47	R_0805	spbc_ii_48v[6C7]
R48	R_0805	spbc_ii_48v[6C7]
R49	R_0805	spbc_ii_48v[6C6]
R50	R_0805	spbc_ii_48v[6C6]
R51	R_0805	spbc_ii_48v[6C7]
R52	R_0805	spbc_ii_48v[6C7]
R53	R_0805	spbc_ii_48v[6C7]
R54	R_0805	spbc_ii_48v[6C8]
R55	R_0805	spbc_ii_48v[6C8]
R56	R_0805	spbc_ii_48v[3B3]
R57	R_0805	spbc_ii_48v[10D7]
R58	R_0805	spbc_ii_48v[10A4]
R59	R_0805	spbc_ii_48v[5A3]
R60	R_0805	spbc_ii_48v[7A4]
R61	R_0805	spbc_ii_48v[7C4]
R62	R_0805	spbc_ii_48v[5B2]
R63	R_0805	spbc_ii_48v[5B2]
R64	R_0805	spbc_ii_48v[5B2]
R65	R_0805	spbc_ii_48v[5B3]
R66	R_0805	spbc_ii_48v[5B3]
R67	R_0805	spbc_ii_48v[5B2]
R68	R_0805	spbc_ii_48v[5B3]
R69	R_0805	spbc_ii_48v[5B2]
R70	R_0805	spbc_ii_48v[5B2]
R71	R_0805	spbc_ii_48v[5B1]
R71B	R_0805	spbc_ii_48v[5B1]
R72	R_MINI-MELF	spbc_ii_48v[5A7]
R73	R_MINI-MELF	spbc_ii_48v[5A6]
R74	R_0805	spbc_ii_48v[7C3]

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AUTH	CA47A-000554	SHEET 22

OECB_A3
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A3	1	2	3	4	5	6	7	8

R75	R_0805	spbc_ii_48v[7B3]
R76	R_0805	spbc_ii_48v[7C3]
R77	R_0805	spbc_ii_48v[7A3]
R78	R_MINI-MELF	spbc_ii_48v[5B4]
R79	R_0805	spbc_ii_48v[5B2]
R80	R_0805	spbc_ii_48v[7C3]
R81	R_MINI-MELF	spbc_ii_48v[5B4]
R82	R_0805	spbc_ii_48v[7B3]
R83	R_MINI-MELF	spbc_ii_48v[10C3]
R84	R_4527	spbc_ii_48v[5B5]
R85	R_4527	spbc_ii_48v[5C6]
R86	R_0805	spbc_ii_48v[5A1]
R87	R_0805	spbc_ii_48v[5A1]
R88	R_0805	spbc_ii_48v[5C5]
R89	R_NTC_THT	spbc_ii_48v[2D2]
R90	R_0805	spbc_ii_48v[10D3]
R91	R_0805	spbc_ii_48v[10D2]
R92	R_0805	spbc_ii_48v[10C1]
R93	R_0805	spbc_ii_48v[10C1]
R94	R_4527	spbc_ii_48v[5B6]
R95	R_4527	spbc_ii_48v[5C5]
R96	R_MINI-MELF	spbc_ii_48v[5A6]
R97	R_0805	spbc_ii_48v[6A4]
R98	R_0805	spbc_ii_48v[6B4]
R99	R_0805	spbc_ii_48v[6B4]
R100	R_0805	spbc_ii_48v[6B4]
R101	R_0805	spbc_ii_48v[6B4]
R102	R_0805	spbc_ii_48v[6C2]
R103	R_0805	spbc_ii_48v[5C3]
R104	R_MINI-MELF	spbc_ii_48v[6A6]
R105	R_MINI-MELF	spbc_ii_48v[6A3]
R106	R_MINI-MELF	spbc_ii_48v[6A3]
R107	R_MINI-MELF	spbc_ii_48v[6A3]
R108	R_0805	spbc_ii_48v[6B5]
R109	R_0805	spbc_ii_48v[6D2]
R110	R_0805	spbc_ii_48v[4A7]
R111	R_0805	spbc_ii_48v[4D3]
R112	R_0805	spbc_ii_48v[4D7]
R113	R_0805	spbc_ii_48v[4C7]
R114	R_0805	spbc_ii_48v[4C7]
R115	R_0805	spbc_ii_48v[4C7]
R116	R_0805	spbc_ii_48v[4D3]
R117	R_0805	spbc_ii_48v[6D4]
R118	R_0805	spbc_ii_48v[4D3]
R119	R_0805	spbc_ii_48v[4D7]
R120	R_0805	spbc_ii_48v[4C7]
R121	R_0805	spbc_ii_48v[4C7]
R122	R_0805	spbc_ii_48v[4C7]
R123	R_0805	spbc_ii_48v[9C3]
R124	R_0805	spbc_ii_48v[9D4]
R125	R_MINI-MELF	spbc_ii_48v[6A6]
R126	R_MINI-MELF	spbc_ii_48v[6A6]
R127	R_MINI-MELF	spbc_ii_48v[6A6]
R128	R_MINI-MELF	spbc_ii_48v[6B5]
R129	R_0805	spbc_ii_48v[9D6]

R130	R_0805	spbc_ii_48v[9C4]
R131	R_0805	spbc_ii_48v[4A2]
R132	R_0805	spbc_ii_48v[4B2]
R133	R_0805	spbc_ii_48v[4B2]
R134	R_0805	spbc_ii_48v[4B2]
R135	R_0805	spbc_ii_48v[4A2]
R136	R_MINI-MELF	spbc_ii_48v[6B6]
R137	R_MINI-MELF	spbc_ii_48v[6B6]
R138	R_MINI-MELF	spbc_ii_48v[6B6]
R139	R_0805	spbc_ii_48v[6B2]
R140	R_0805	spbc_ii_48v[6D4]
R141	R_0805	spbc_ii_48v[6C4]
R142	R_0805	spbc_ii_48v[6C4]
R143	R_0805	spbc_ii_48v[9D5]
R144	R_0805	spbc_ii_48v[9C3]
R145	R_0805	spbc_ii_48v[4C5]
R146	R_0805	spbc_ii_48v[4C5]
R147	R_0805	spbc_ii_48v[4D5]
R148	R_0805	spbc_ii_48v[4D5]
R149	R_0805	spbc_ii_48v[5D8]
R150	R_0805	spbc_ii_48v[5D7]
R151	R_0805	spbc_ii_48v[3B3]
R152	R_0805	spbc_ii_48v[3B3]
R153	R_0805	spbc_ii_48v[3A3]
R154	R_0805	spbc_ii_48v[3B5]
R155	R_0805	spbc_ii_48v[3B6]
R156	R_0805	spbc_ii_48v[6C6]
R157	R_0805	spbc_ii_48v[6C7]
R158	R_0805	spbc_ii_48v[6C7]
R159	R_0805	spbc_ii_48v[6C7]
R160	R_0805	spbc_ii_48v[6C8]
R161	R_0805	spbc_ii_48v[6C8]
R162	R_0805	spbc_ii_48v[5D4]
R163	R_0805	spbc_ii_48v[4A2]
R164	R_0805	spbc_ii_48v[4A2]
R165	R_0805	spbc_ii_48v[4A2]
R166	R_0805	spbc_ii_48v[4C5]
R167	R_0805	spbc_ii_48v[4B5]
R168	R_0805	spbc_ii_48v[4B5]
R169	R_0805	spbc_ii_48v[4A5]
R170	R_0805	spbc_ii_48v[4C5]
R171	R_0805	spbc_ii_48v[4D5]
R172	R_0805	spbc_ii_48v[4D5]
R173	R_0805	spbc_ii_48v[4D5]
R174	R_0805	spbc_ii_48v[4D3]
R175	R_0805	spbc_ii_48v[5D7]
R176	R_0805	spbc_ii_48v[5D7]
R177	R_0805	spbc_ii_48v[7D3]
R178	R_0805	spbc_ii_48v[7D3]
R179	R_0805	spbc_ii_48v[3B3]
R180	R_0805	spbc_ii_48v[5D4]
R181	R_0805	spbc_ii_48v[9A3]
R182	R_0805	spbc_ii_48v[4C5]
R183	R_0805	spbc_ii_48v[4C5]
R184	R_0805	spbc_ii_48v[4B5]

Changes

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CIRCUIT DIAGRAM FOR

SPBC_II
48V

CAD GENERATED
CADENCE-CONCEPT

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 23

OECB_A3
REV 2004-09-06

R185	R_0805	spbc_ii_48v[4B5]
R186	R_0805	spbc_ii_48v[4B2]
R187	R_0805	spbc_ii_48v[4C2]
R188	R_0805	spbc_ii_48v[4C2]
R189	R_0805	spbc_ii_48v[4C2]
R190	R_0805	spbc_ii_48v[7D2]
R191	R_0805	spbc_ii_48v[7D2]
R192	R_0805	spbc_ii_48v[3B3]
R193	R_0805	spbc_ii_48v[9A8]
R194	R_0805	spbc_ii_48v[3C3]
R195	R_0805	spbc_ii_48v[3C3]
R196	R_0805	spbc_ii_48v[3A6]
R197	R_0805	spbc_ii_48v[9B1]
R198	R_0805	spbc_ii_48v[9B1]
R199	R_0805	spbc_ii_48v[9D1]
R200	R_0805	spbc_ii_48v[5A7]
R201	R_0805	spbc_ii_48v[5A7]
R202	R_0805	spbc_ii_48v[4C2]
R203	R_0805	spbc_ii_48v[4C2]
R204	R_0805	spbc_ii_48v[4C2]
R205	R_0805	spbc_ii_48v[3C4]
R206	R_0805	spbc_ii_48v[3D4]
R207	R_0805	spbc_ii_48v[3D2]
R208	R_0805	spbc_ii_48v[3B7]
R209	R_0805	spbc_ii_48v[4D7]
R210	R_0805	spbc_ii_48v[4A5]
R211	R_0805	spbc_ii_48v[4D7]
R212	R_0805	spbc_ii_48v[5A7]
R213	R_0805	spbc_ii_48v[5A7]
R214	R_0805	spbc_ii_48v[2A4]
R215	R_0805	spbc_ii_48v[2A2]
R216	R_0805	spbc_ii_48v[2A7]
R217	R_0805	spbc_ii_48v[2C8]
R218	R_0805	spbc_ii_48v[2C8]
R219	R_0805	spbc_ii_48v[10C6]
R220	R_0805	spbc_ii_48v[10C6]
R221	R_0805	spbc_ii_48v[10B5]
R222	R_0805	spbc_ii_48v[10A4]
R223	R_0805	spbc_ii_48v[10B7]
R224	R_0805	spbc_ii_48v[3D3]
R225	R_0805	spbc_ii_48v[9C7]
R226	R_0805	spbc_ii_48v[9C7]
R227	R_0805	spbc_ii_48v[3C3]
R228	R_0805	spbc_ii_48v[9C2]
R229	R_0805	spbc_ii_48v[9B2]
R230	R_0805	spbc_ii_48v[9D2]
R231	R_0805	spbc_ii_48v[2C5]
R232	R_0805	spbc_ii_48v[2C5]
R233	R_0805	spbc_ii_48v[2C5]
R234	R_0805	spbc_ii_48v[10C6]
R235	R_0805	spbc_ii_48v[10B5]
R236	R_0805	spbc_ii_48v[10A5]
R237	R_0805	spbc_ii_48v[10A6]
R238	R_0805	spbc_ii_48v[2A7]
R239	R_0805	spbc_ii_48v[2A7]

R240	R_0805	spbc_ii_48v[9A1]
R241	R_0805	spbc_ii_48v[9A1]
R242	R_0805	spbc_ii_48v[9A6]
R243	R_0805	spbc_ii_48v[10B3]
R244	R_0805	spbc_ii_48v[10B6]
R245	R_0805	spbc_ii_48v[10B6]
R246	R_MINI-MELF	spbc_ii_48v[8C6]
R247	R_0805	spbc_ii_48v[8C6]
R248	R_0805	spbc_ii_48v[8C5]
R249	R_0805	spbc_ii_48v[10B3]
R250	R_0805	spbc_ii_48v[4A5]
R251	R_0805	spbc_ii_48v[4A5]
R252	R_0805	spbc_ii_48v[8D3]
R253	R_0805	spbc_ii_48v[4D1]
R254	R_0805	spbc_ii_48v[2C5]
R255	R_0805	spbc_ii_48v[7D4]
R256	R_0805	spbc_ii_48v[2B1]
R257	R_0805	spbc_ii_48v[10B5]
R258	R_0805	spbc_ii_48v[10C4]
R259	R_0805	spbc_ii_48v[10C3]
R260	R_0805	spbc_ii_48v[8D6]
R261	R_0805	spbc_ii_48v[8D5]
R262	R_MINI-MELF	spbc_ii_48v[8D6]
R263	R_0805	spbc_ii_48v[9A7]
R264	R_0805	spbc_ii_48v[9A6]
R265	R_0805	spbc_ii_48v[9A2]
R266	R_0805	spbc_ii_48v[9B2]
R267	R_0805	spbc_ii_48v[5B5]
R268	R_0805	spbc_ii_48v[10C3]
R269	R_0805	spbc_ii_48v[10C1]
R270	R_0805	spbc_ii_48v[10D3]
R271	R_0805	spbc_ii_48v[10C3]
R272	R_0805	spbc_ii_48v[10D3]
R273	R_0805	spbc_ii_48v[9B6]
R274	R_0805	spbc_ii_48v[9D1]
R275	R_0805	spbc_ii_48v[9C1]
R276	R_MINI-MELF	spbc_ii_48v[7A2]
R277	R_MINI-MELF	spbc_ii_48v[7C2]
R278	R_0805	spbc_ii_48v[5C5]
R279	R_0805	spbc_ii_48v[2D2]
R280	R_0805	spbc_ii_48v[4D7]
R281	R_0805	spbc_ii_48v[4D7]
R282	R_0805	spbc_ii_48v[5B6]
R283	R_0805	spbc_ii_48v[5B5]
R284	R_0805	spbc_ii_48v[5B5]
R285	R_MINI-MELF	spbc_ii_48v[5B6]
R286	R_0805	spbc_ii_48v[9B6]
R287	R_0805	spbc_ii_48v[9D2]
R288	R_0805	spbc_ii_48v[9C2]
R289	R_0805	spbc_ii_48v[5A7]
R290	R_0805	spbc_ii_48v[5A7]
R291	R_0805	spbc_ii_48v[5B4]
R292	R_0805	spbc_ii_48v[5A2]
R293	R_0805	spbc_ii_48v[9D3]
R294	R_0805	spbc_ii_48v[9C3]

Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

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CIRCUIT DIAGRAM FOR

SPBC_II
48V

CAD GENERATED
CADENCE-CONCEPT

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE
CHK	J.Gewinner	2009-09-29
APPD	H.Horbruegger	SHEETS
AUTH	CA47A-000554	SHEET 24

OECB_A3
REV 2004-09-06

R295	R_0805	spbc_ii_48v[5A2]	
REL1	RELAY_POL2W_RT424012	spbc_ii_48v[6B7]	
REL1	RELAY_POL2W_RT424012	spbc_ii_48v[10B8	10B7]
REL2	RELAY_POL2W_RT424012	spbc_ii_48v[5A5	5A6 5C8]
RV97	SIOV_S20K40_THT	spbc_ii_48v[5A7]	
SW1	SMD_BUTTON_SMD	spbc_ii_48v[9D1]	
SW2	SMD_BUTTON_SMD	spbc_ii_48v[9B1]	
SW3	SMD_BUTTON_SMD	spbc_ii_48v[9C1]	
SW4	SMD_BUTTON_SMD_WHITE	spbc_ii_48v[10A3]	
SW5	SMD_BUTTON_SMD	spbc_ii_48v[9A6]	
SW6	SMD_BUTTON_SMD	spbc_ii_48v[9B1]	
SW7	SMD_BUTTON_SMD	spbc_ii_48v[9A1]	
SW8	SMD_BUTTON_SMD_3ESH9	spbc_ii_48v[7B6]	
SW9	SMD_BUTTON_SMD	spbc_ii_48v[9C1]	
SW10	SMD_BUTTON_SMD	spbc_ii_48v[9D1]	
SW11	SMD_BUTTON_SMD	spbc_ii_48v[9B6]	
X1_Z1	SOCKET_MECH_PART_MECH_PART	spbc_ii_48v[2A6]	
X2_Z2	SOCKET_MECH_PART_MECH_PART	spbc_ii_48v[2C8]	
Z1	AM29F010_ENHANCED	spbc_ii_48v[2B6]	
Z1_PROGRAMED	SOFTWARE_MECH_PART_MECH_PART	spbc_ii_48v[2A6]	
Z2	GAL22V10_PLCC	spbc_ii_48v[2D6]	
Z2_PROGRAMED	SOFTWARE_MECH_PART_MECH_PART	spbc_ii_48v[2D8]	
Z3	LM2595_5_SMD	spbc_ii_48v[5D5]	
Z4	LM2595_5_SMD	spbc_ii_48v[5D2]	
Z5	74HC595_SOIC	spbc_ii_48v[4B7]	
Z6	74HCT573_SOIC	spbc_ii_48v[4D2]	
Z7	75LBC180_SOIC	spbc_ii_48v[8A3]	
Z8	BQ2031_SOIC	spbc_ii_48v[6C3]	
Z9	74HC595_SOIC	spbc_ii_48v[4A4]	
Z10	74HC595_SOIC	spbc_ii_48v[4D4]	
Z11	74HC245_SOIC	spbc_ii_48v[9C4]	
Z12	74HC02_SOIC	spbc_ii_48v[3B6]	
Z12	74HC02_SOIC	spbc_ii_48v[5A3	5C7]
Z12	74HC02_SOIC	spbc_ii_48v[9C6]	
Z13	74HC595_SOIC	spbc_ii_48v[4A2]	
Z14	74HC595_SOIC	spbc_ii_48v[4B4]	
Z15	LM317L_SOIC	spbc_ii_48v[5C7]	
Z16	LM317L_SOIC	spbc_ii_48v[5D4]	
Z17	MAX691_SOIC	spbc_ii_48v[3B4]	
Z18	74HC14	spbc_ii_48v[3B6	3B7]
Z18	74HC14_SOIC	spbc_ii_48v[5C6]	
Z18	74HC14_SOIC	spbc_ii_48v[9A4	9C6 9C6]
Z19	74HC245_SOIC	spbc_ii_48v[9B4]	
Z20	74HC595_SOIC	spbc_ii_48v[4B2]	
Z21	74HC595_SOIC	spbc_ii_48v[4D7]	
Z22	24C02_SOIC	spbc_ii_48v[3C5]	
Z23	LM339_SOIC	spbc_ii_48v[3C3]	
Z23	LM339_SOIC	spbc_ii_48v[4A7]	
Z23	LM339_SOIC	spbc_ii_48v[9C8	9A7]
Z24	74AC573_SOIC	spbc_ii_48v[2B4]	
Z25	CRYSTAL_OSC_VX-3E	spbc_ii_48v[2A1]	
Z26	128KX8SRAM_SOIC	spbc_ii_48v[2B8]	
Z27	74HC14_SOIC	spbc_ii_48v[7C4	7C5 7A5 7D4 7A4]
Z27	74HC14_SOIC	spbc_ii_48v[10A6]	
Z28	LM339_SOIC	spbc_ii_48v[7C3	7C6 7A3]
Z28	LM339_SOIC	spbc_ii_48v[10B7]	
Z29	TJA1050_SOIC	spbc_ii_48v[8C3]	
Z30	C505C_QFP	spbc_ii_48v[2C1]	
Z31	UC3843D_SOIC	spbc_ii_48v[5B3]	
Z32	LM339_SOIC	spbc_ii_48v[10B5	10C5 10C4 10C2]
Z33	OP284F_SOIC	spbc_ii_48v[5C4	5A1]
Z293	SMBJ12A_SMD	spbc_ii_48v[5A7]	

Changes

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

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CIRCUIT DIAGRAM FOR

SPBC_II
48V

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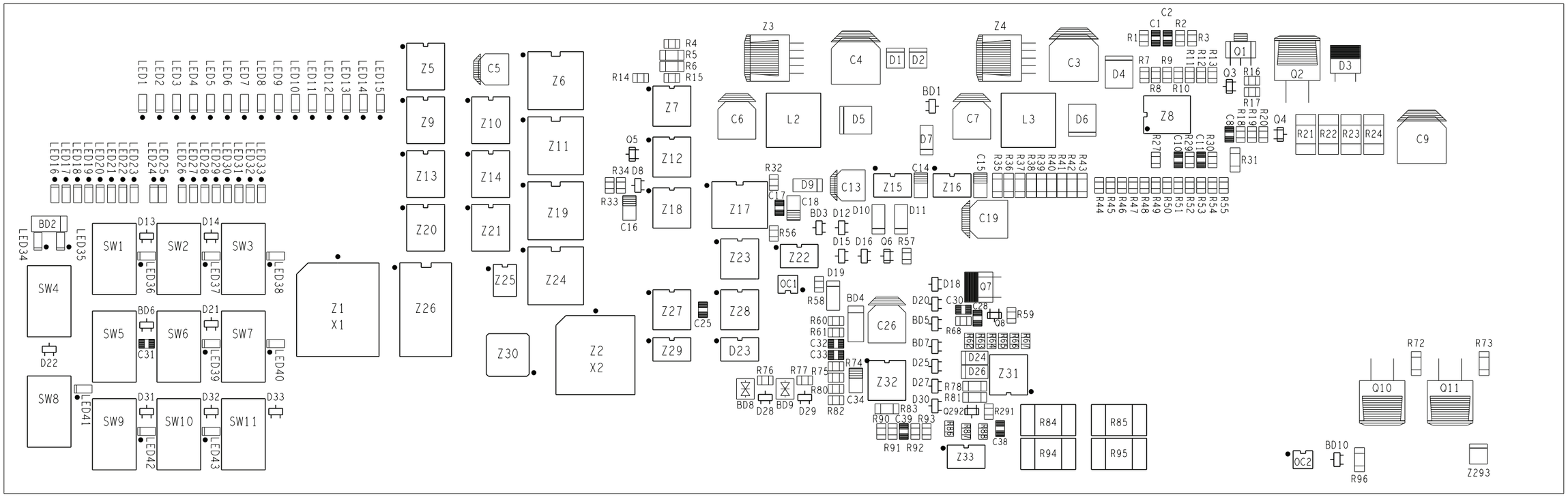
DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	F. Donath	ORIGINAL DATE	
CHK	J.Gewinner	2009-09-29	
APPD	H.Horbruegger	SHEETS	
AUTH	CA47A-000554	SHEET 25	

OECB_A3
REV 2004-09-06

TOP VIEW
Sicht auf
Bestückungsseite



ALL DIMENSIONS METRIC

SMD-Lageplan

Part-No. / Teil-Nr. GCA26800NB1-3

Scale / Massstab 1.5:1

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	S. KOEPPEN	ORIGINAL DATE	2009-09-29
CHK	F. DONATH		
APPD	H. HORBRUEGGER	SHEETS	
AUTH	CA47A-000554	SHEET	26

PCB LAYOUT

SPBC_II-48V

CADENCE ALLEGRO
CAD GENERATED

CHANGES

2011-03-10 G(B)A Version 3 for Genesis added CA47A-003543 S.Greifenberg
2013-10-25 G(C)A Redesign CN452218 I.Atalmis

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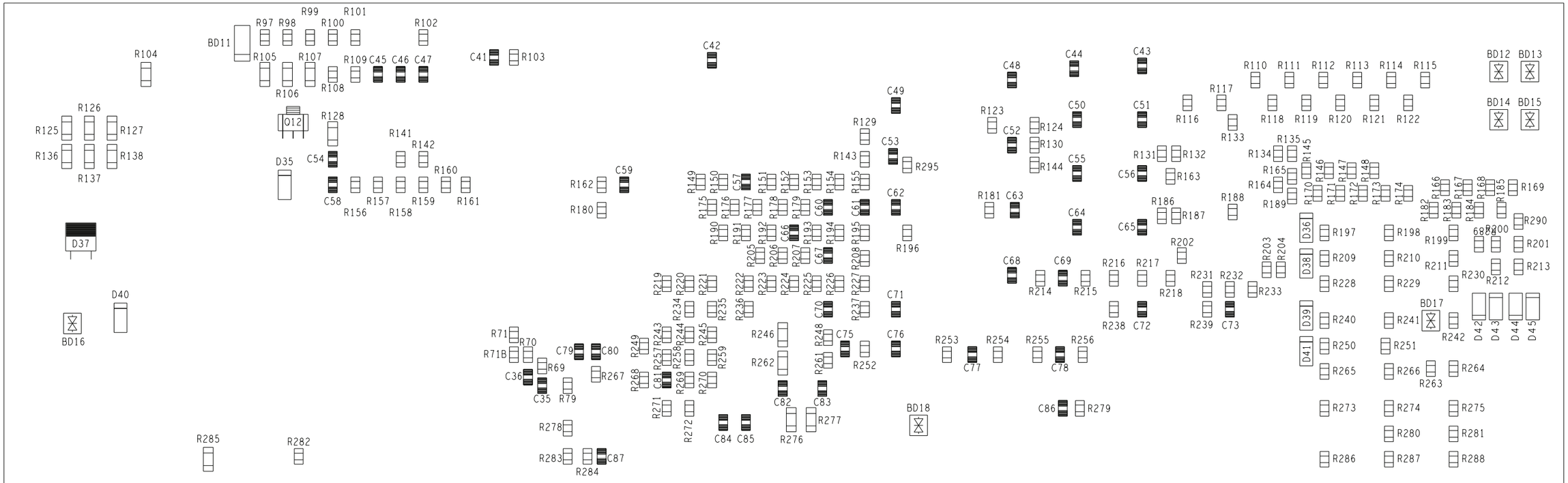
OECB_A2
REV 1998-11-13

BOTTOM VIEW
Sicht auf
Lötseite



ALL DIMENSIONS METRIC

SMD-Lageplan

Part-No.
Teil-Nr. GCA26800NB1

Scale
Massstab 1.5:1

CHANGES

2011-03-10 G(B)A Version 3 for Genesis added CA47A-003543 S.Greifenberg
2013-10-25 G(C)A Redesign CN452218 I.Atalmis

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PCB LAYOUT

SPBC_II-48V

CADENCE ALLEGRO
CAD GENERATED

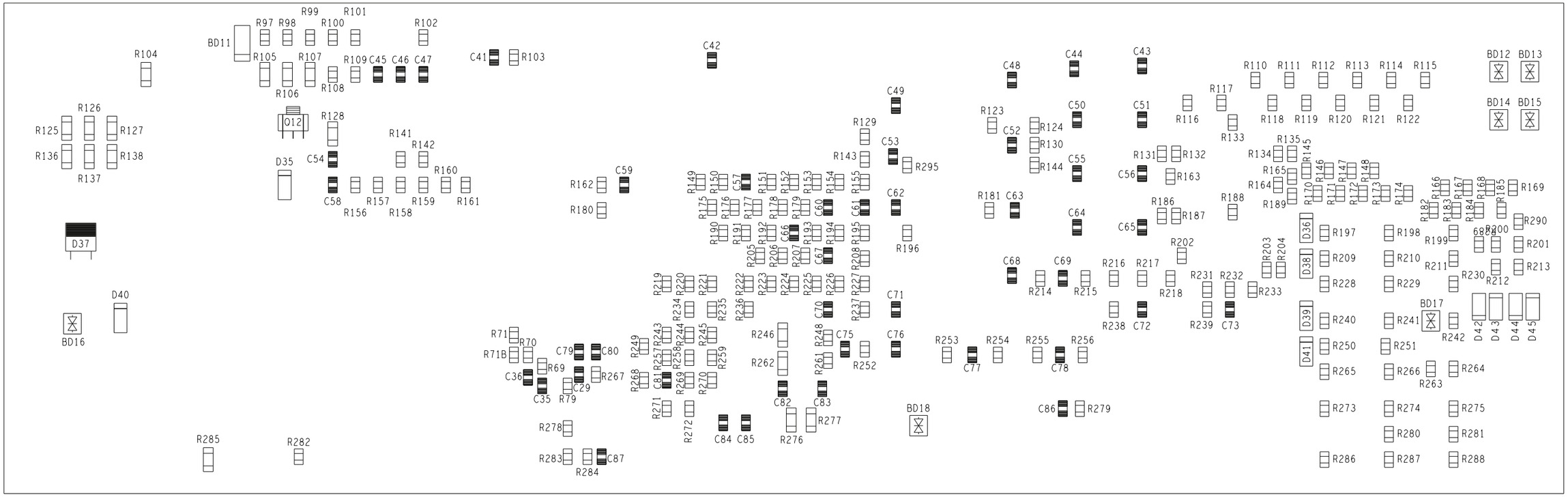
DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	S. KOEPPEN	ORIGINAL DATE
CHK	F. DONATH	2009-09-29
APPD	H. HORBRUEGGER	SHEETS
AUTH	CA47A-000554	SHEET 27

OECB_A2
REV 1998-11-13

BOTTOM VIEW
Sicht auf
Lötseite



ALL DIMENSIONS METRIC

SMD-Lageplan

Part-No. / Teil-Nr. GCA26800NB2

Scale / Massstab 1.5:1

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	S. KOEPPEN	ORIGINAL DATE
CHK	F. DONATH	2009-09-29
APPD	H. HORBRUEGGER	SHEETS
AUTH	CA47A-000554	SHEET 28

PCB LAYOUT

SPBC_II-48V

CADENCE ALLEGRO
CAD GENERATED

CHANGES

2011-03-10 G(B)A Version 3 for Genesis added CA47A-003543 S.Greifenberg
2013-10-25 G(C)A Redesign CN452218 I.Atalmis

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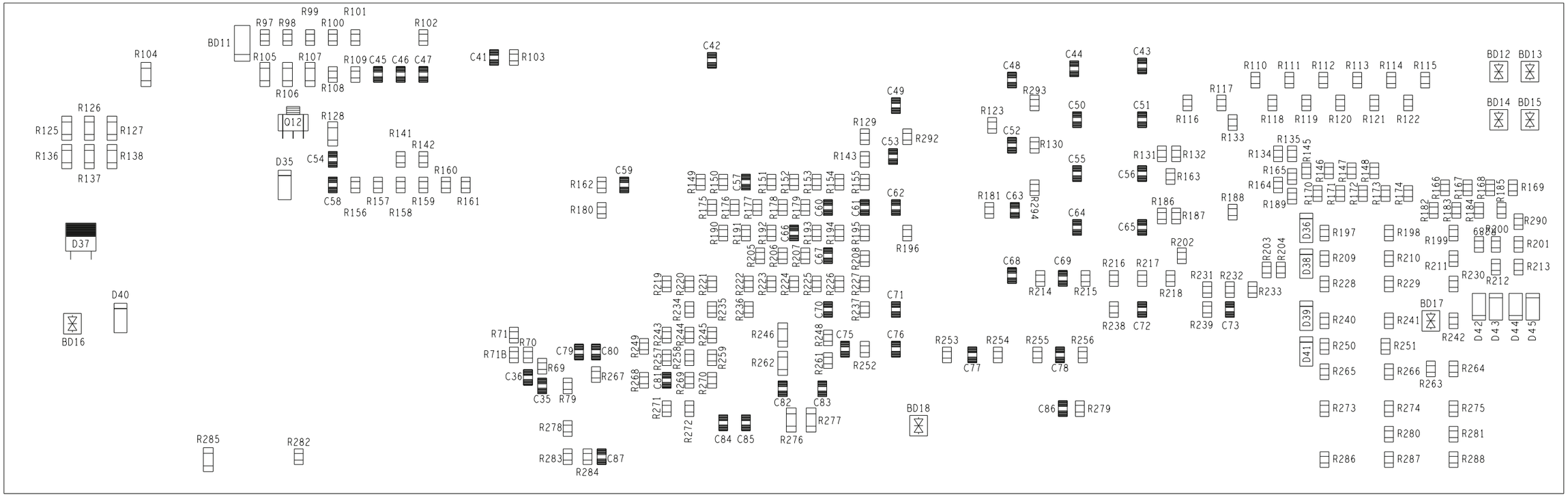
OECB_A2
REV 1998-11-13

BOTTOM VIEW
Sicht auf
Lötseite



ALL DIMENSIONS METRIC

SMD-Lageplan

Part-No.
Teil-Nr. GCA26800NB3

Scale
Massstab 1.5:1

CHANGES

2011-03-10 G(B)A Version 3 for Genesis added CA47A-003543 S.Greifenberg
2013-10-25 G(C)A Redesign CN452218 I.Atalmis

A United Technologies Company

PCB LAYOUT

SPBC_II-48V

CADENCE ALLEGRO
CAD GENERATED

DWG GCA26800NB

OTIS ENGINEERING CENTER
BERLIN, GERMANY

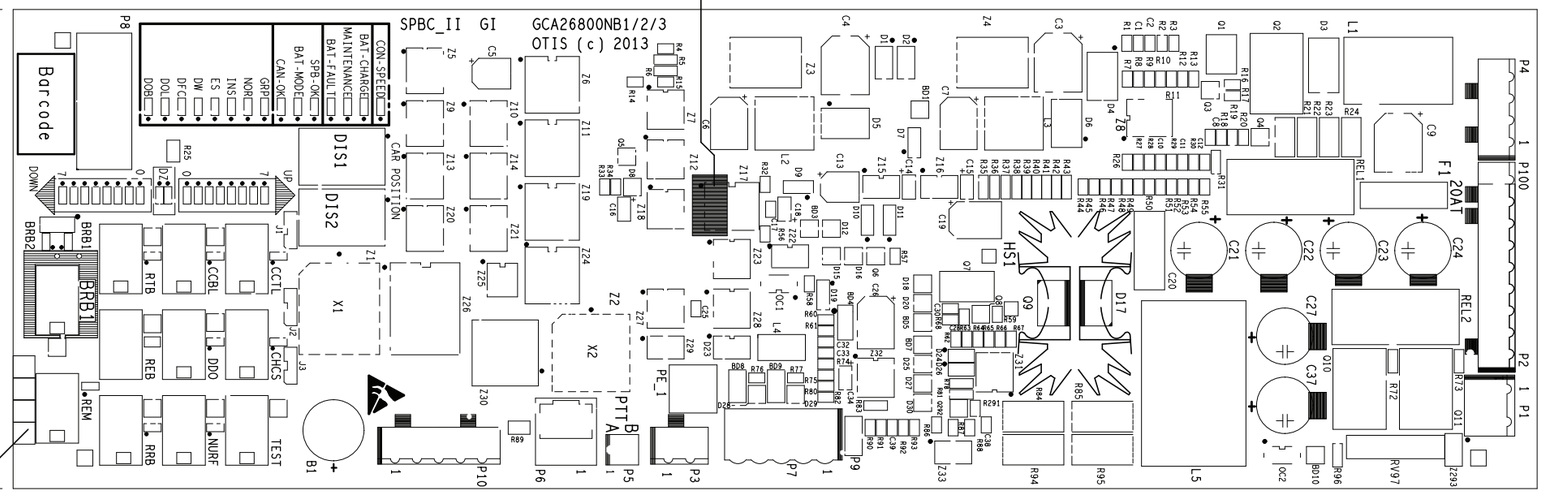
DRAWN	S. KOEPPEN	ORIGINAL DATE
CHK	F. DONATH	2009-09-29
APPD	H. HORBRUEGGER	SHEETS
AUTH	CA47A-000554	SHEET 29

OECB_A2
REV 1998-11-13

TOP VIEW
Sicht auf
Bestückungsseite

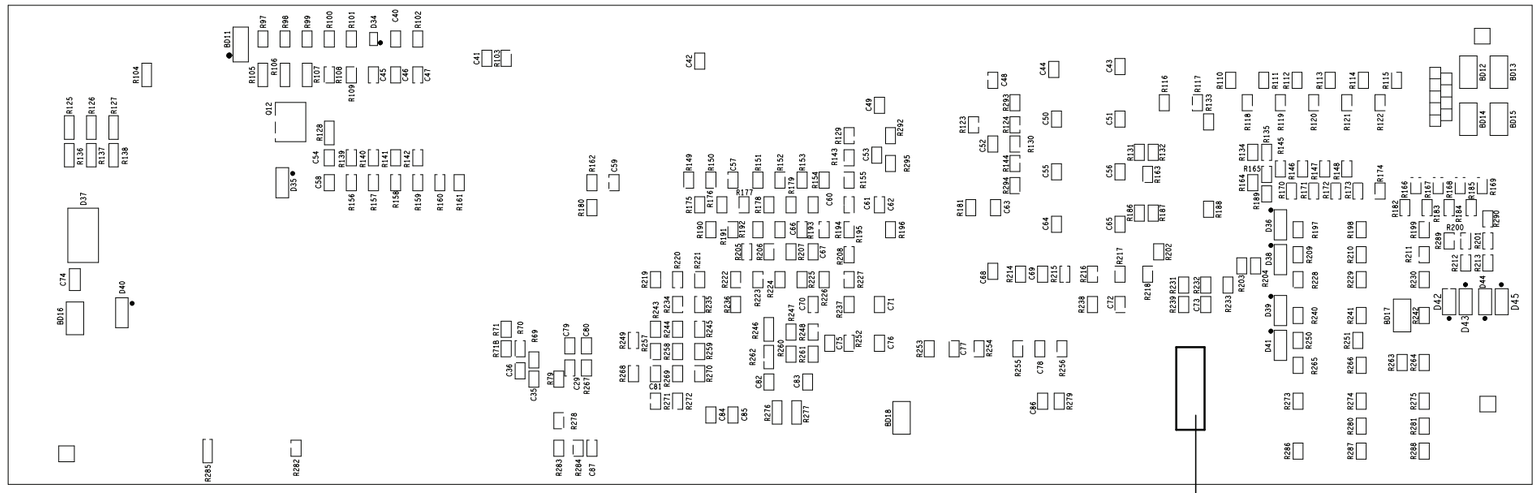
Coating Bereich / Area

TOP-
SIDE



Pruefstempel
Test Mark

BOTTOM-
SIDE



Firmensymbol/Herstellerdatum
Firm Logo/Manufacture Date

Stecker Plugs	Geeignete Gegenstecker Suitable Plugs
P1	723-602
P2	721-108/026-000
P3	721-102/026-000
P4	721-104/026-000
P5	Miniature terminal block with spring force double connection per position.
P6	6-pins phone plug
P7	721-605
P8	Service Tool Plug
P9	AMP FAST-ON 6.3 mm
P10	721-105/026-000
P100	721-109/026-000

Höhe
Hight 40mm

Gewicht
Weight 250g

Teil Nr
Part No GCA26800NB1/2/3

Quality Criteria GCA26800NB_TR

ALL DIMENSIONS METRIC

CHANGES

2011-03-10 G(B)A Version 3 for Genesis added	CA47A-003543	S.Greifenberg
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OTIS
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AUTH	CA47A-000554	SHEET 30

OECB_A2
REV 1998-11-13