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SIZE A4+

SCHEMATIC

MODEL: HUB6.3A

TITLE: MOUDLE BOARD

VERSION: V1.0

DRAWING NO.:

SHEET 1 OF 26

DRAWN:

CHECKED:

NORMALIZED:

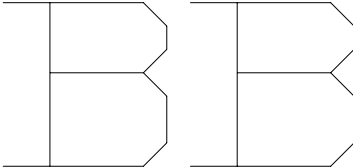
APPROVED:

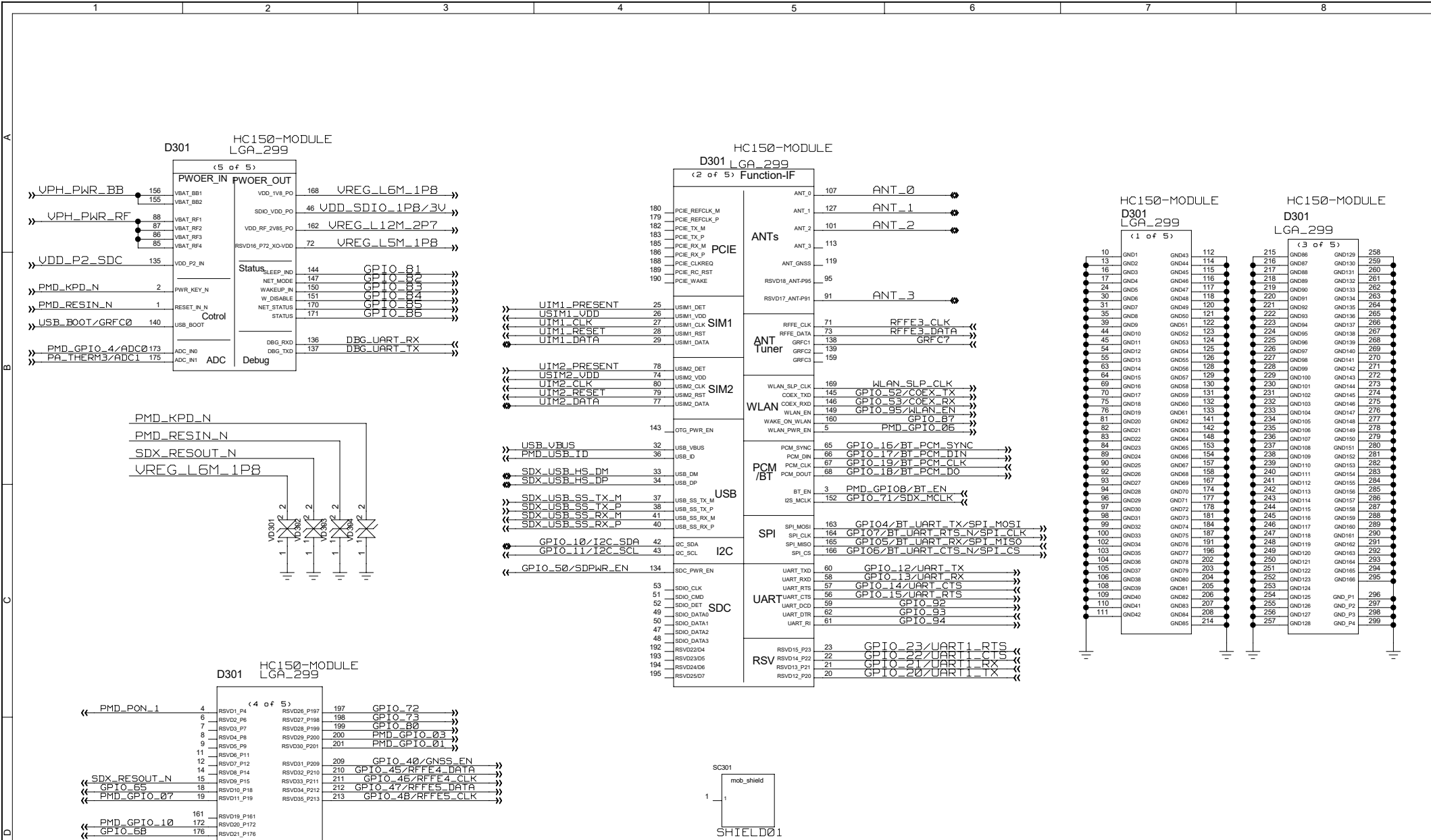
MK CORPORATION

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MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB6.3A	SHEET 1 OF 26	
DRAWN		TITLE: MOUDLE BOARD	VERSION:	V1.0
CHECKED		DRAWING NO.:		

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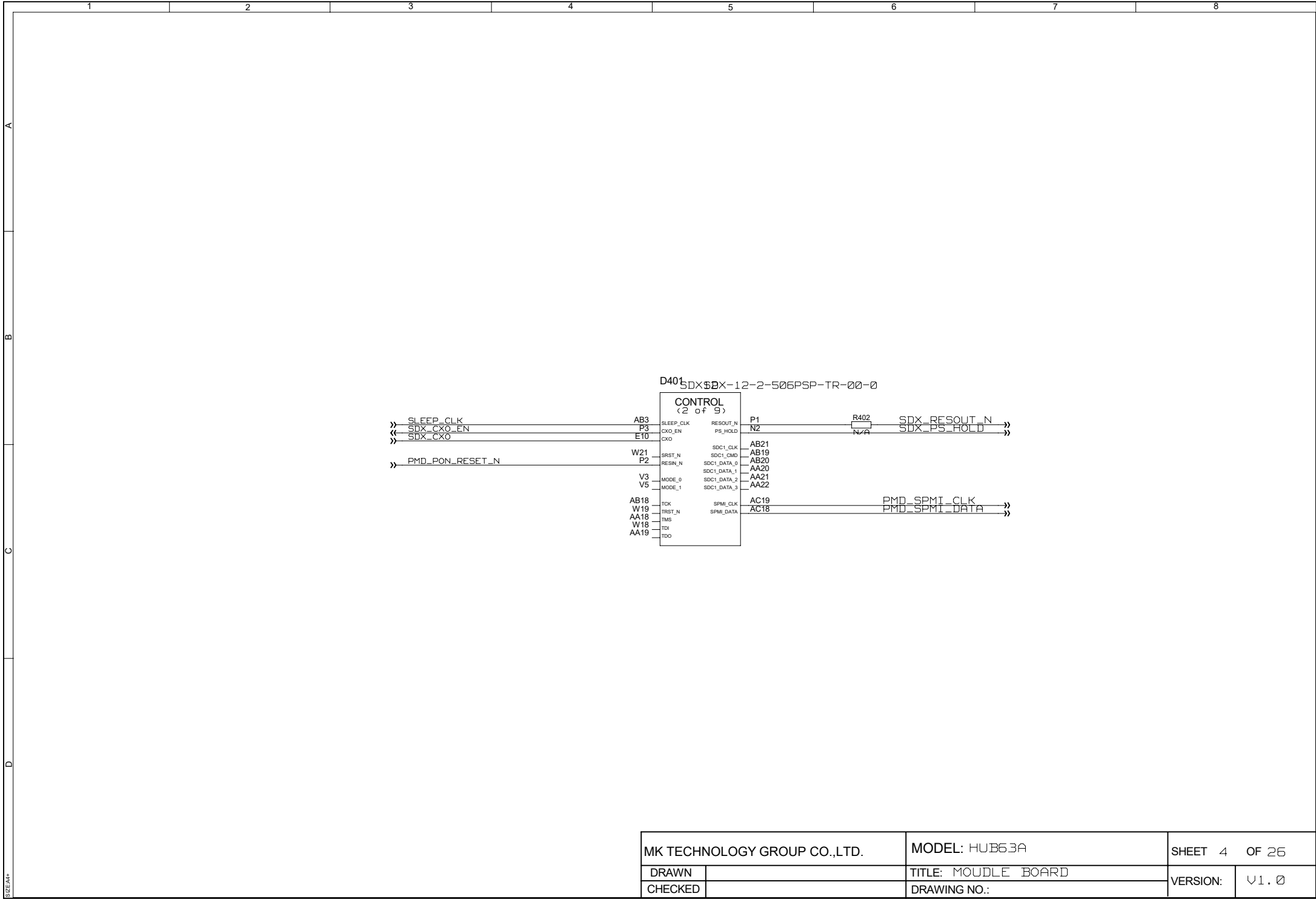
1	2	3	4	5	6	7	8
A							
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GPIO_65: PCIE_EP_RST

MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A	SHEET 3 OF 26	
DRAWN		TITLE: MOUDLE BOARD	VERSION:	V1.0
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D401 SDX12

(S 0+ 9)

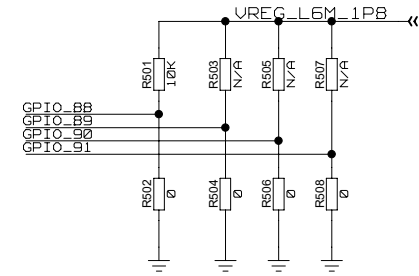
<< UIM2_DATA	AA14	GPIO_0	GPIO_50	AC23	GPIO_50/SDPWR_EN	>>
<< UIM2_PRESENT	W24	GPIO_1	GPIO_51	AC22	EBI2_BUSY_N	>>
<< UIM2_RESET	W13	GPIO_2	GPIO_52	H3	GPIO_52/COEX_TX	>>
<< UIM2_CLK	AB14	GPIO_3	GPIO_53	AC24	GPIO_53/COEX_RX	>>
<< GPIO4/BT_UART_TX/SPI_MOSI	AB2	GPIO_4	GPIO_54	Y24	EBI2_ALE	>>
<< GPIO5/BT_UART_RX/SPI_MISO	AA3	GPIO_5	GPIO_55	R23	EBI2_A_D_3	>>
<< GPIO6/BT_UART_CTS_N/SPI_CS	AA2	GPIO_6	GPIO_56	Y23	EBI2_OE_N	>>
<< GPIO7/BT_UART_RTS_N/SPI_CLK	AA1	GPIO_7	GPIO_57	U24	EBI2_CLE	>>
<< DBG_UART_TX	AC10	GPIO_8	GPIO_58	AA23	EBI2_A_D_7	>>
<< DBG_UART_RX	AA6	GPIO_9	GPIO_59	U23	EBI2_A_D_6	>>
<< GPIO10/I2C_SDA	AB10	GPIO_10	GPIO_60	AA3	U23	>>
<< GPIO11/I2C_SCL	W11	GPIO_11	GPIO_61	AA4	EBI2_A_D_4	>>
<< GPIO12/UART_TX	W8	GPIO_12	GPIO_62	T23	EBI2_A_D_4	>>
<< GPIO13/UART_RX	AC7	GPIO_13	GPIO_63	AB25	MAPPS_BOOT_FROM_ROM1	>>
<< GPIO14/UART_CTS	AB7	GPIO_14	GPIO_64	AB22	EBI2_WE_N	>>
<< GPIO15/UART_RTS	AA7	GPIO_15	GPIO_65	AB23	GPIO_65	>>
<< GPIO16/BT_PCM_SYNC BT_PCM_SYNC	AA11	GPIO_16	GPIO_66	AB24	EBI2_A_D_5	>>
<< GPIO17/BT_PCM_DIN BT_PCM_DIN	AA9	GPIO_17	GPIO_67	P23	EBI2_A_D_2	>>
<< GPIO18/BT_PCM_DO BT_PCM_DO	W9	GPIO_18	GPIO_68	K1	FORCED_USB_SS_BOOT1	>>
<< GPIO19/BT_PCM_CLK BT_PCM_CLK	AB8	GPIO_19	GPIO_69	W23	UIM_BATT_ALARM	>>
<< GPIO20/UART1_TX	AC11	GPIO_20	GPIO_70	AA24	EBI2_A_D_0	>>
<< GPIO21/UART1_RX	AA10	GPIO_21	GPIO_71	AB6	GPIO_71/SDX_MCLK	>>
<< GPIO22/UART1_CTS	AB9	GPIO_22	GPIO_72	L3	GPIO_72	>>
<< GPIO23/UART1_RTS	AB11	GPIO_23	GPIO_73	N3	RFFE1_DATA	>>
<< EBI2_A_D_1	FAST_BOOT_0	GPIO_24	GPIO_74	M3	RFFE1_CLK	>>
<< EBI2_CS_N	V24	GPIO_25	GPIO_75	AB16	UIM1_DATA	>>
<< RFFE6_CLK	M5	GPIO_26	GPIO_76	V23	UIM1_PRESENT	>>
<< RFFE6_DATA	L2	GPIO_27	GPIO_77	AB15	UIM1_RESET	>>
<< WNSS_RESET_N	K3	GPIO_28	GPIO_78	H5	UIM1_CLK	>>
<< GPIO_29	K2	GPIO_29	GPIO_79	H1	GPIO_80	>>
<< GRFC5	F3	GPIO_30	GPIO_80	H2	GPIO_81	>>
<< GRFC1	E3	GPIO_31	GPIO_81	G1	GPIO_82	>>
<< GRFC2	D2	GPIO_32	GPIO_82	G2	GPIO_83	>>
<< GRFC3	D1	GPIO_33	GPIO_83	G3	GPIO_84	>>
<< GRFC4	D3	GPIO_34	GPIO_84	AB12	GPIO_85	>>
<< GRFC5	C2	GPIO_35	GPIO_85	AB13	GPIO_86	>>
<< USB_BOOT/GRFC0	C1	GPIO_36	GPIO_86	AA13	GPIO_87	>>
<< GRFC7	C3	GPIO_37	GPIO_87	AA12	GPIO_88	>>
<< GRFC8	F1	GPIO_38	GPIO_88	W12	GPIO_89	>>
<< GRFC9	F2	GPIO_39	GPIO_89	W7	GPIO_90	>>
<< GPIO_40/GNSS_EN	B2	GPIO_40	GPIO_90	AB5	GPIO_91	>>
<< OLINK_REQ	B9	GPIO_41	GPIO_91	AA5	GPIO_92	>>
<< OLINK_EN	A2	GPIO_42	GPIO_92	W5	GPIO_93	>>
<< RFFE3_DATA	Y1	GPIO_43	GPIO_93	AB4	GPIO_94	>>
<< RFFE3_CLK	Y2	GPIO_44	GPIO_94	AA16	GPIO_95/WLAN_EN	>>
<< GPIO_45/RFFE4_DATA	Y3	GPIO_45	GPIO_95	W17		>>
<< GPIO_46/RFFE4_CLK	W2	GPIO_46	GPIO_96	AA17		>>
<< GPIO_47/RFFE5_DATA	V2	GPIO_47	GPIO_97	AB17		>>
<< GPIO_48/RFFE5_CLK	W3	GPIO_48	GPIO_98			>>

GPIO_50:
PCIE_RC_RST

GPIO_65:
PCIE_EP_RST

SDX-16

GPIO_36:
1: FORCED_USB_BOOT
2: PA_INDICATOR



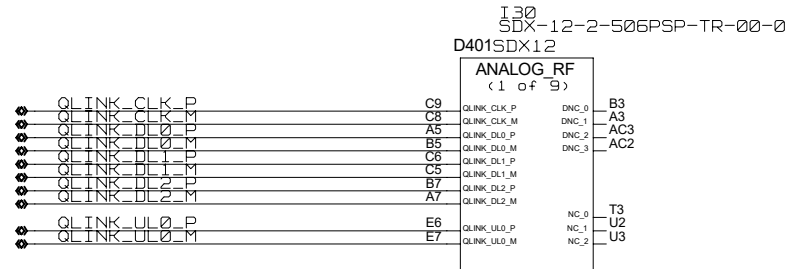
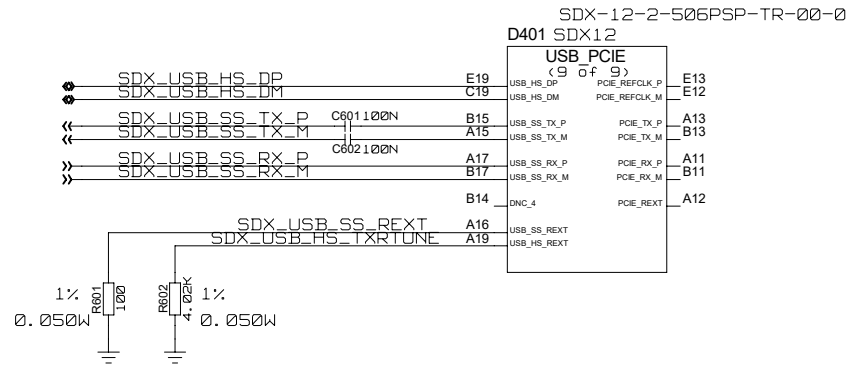
BOARD_ID

GP I O S

MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A		SHEET 5 OF 26	
DRAWN		TITLE: MOUDLE BOARD		VERSION:	V1.0
CHECKED		DRAWING NO.:			

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USB/PCIE/RF

MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A	SHEET 6 OF 26	
DRAWN		TITLE: MOUDLE BOARD	VERSION:	V1.0
CHECKED		DRAWING NO.:		



MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A	SHEET 7 OF 26	
DRAWN		TITLE: MOUDLE BOARD	VERSION:	V1.0
CHECKED		DRAWING NO.:		



VERSION:	v1.0
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POWER-2

MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A	SHEET 9 OF 26	
DRAWN		TITLE: MOUDLE BOARD	VERSION:	V1.0
CHECKED		DRAWING NO.:		

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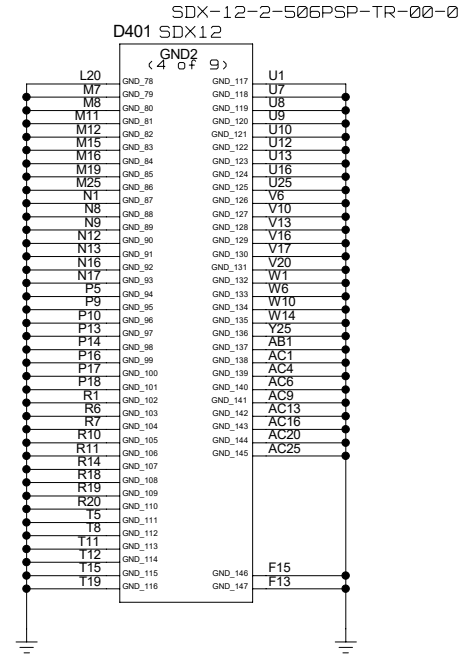
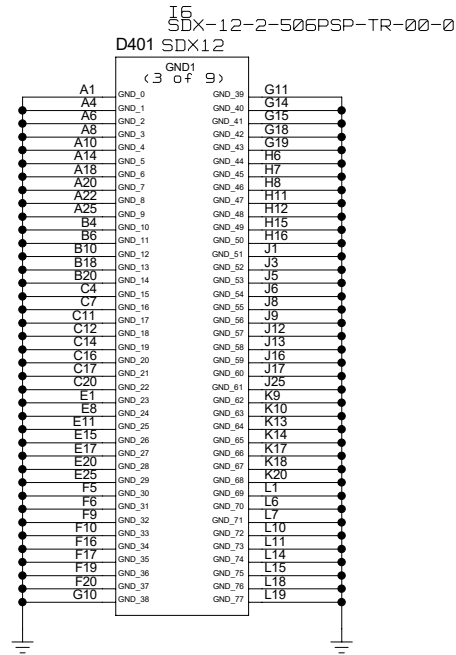
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GND

MK TECHNOLOGY GROUP CO.,LTD.

MODEL: HUB63A

SHEET 10 OF 26

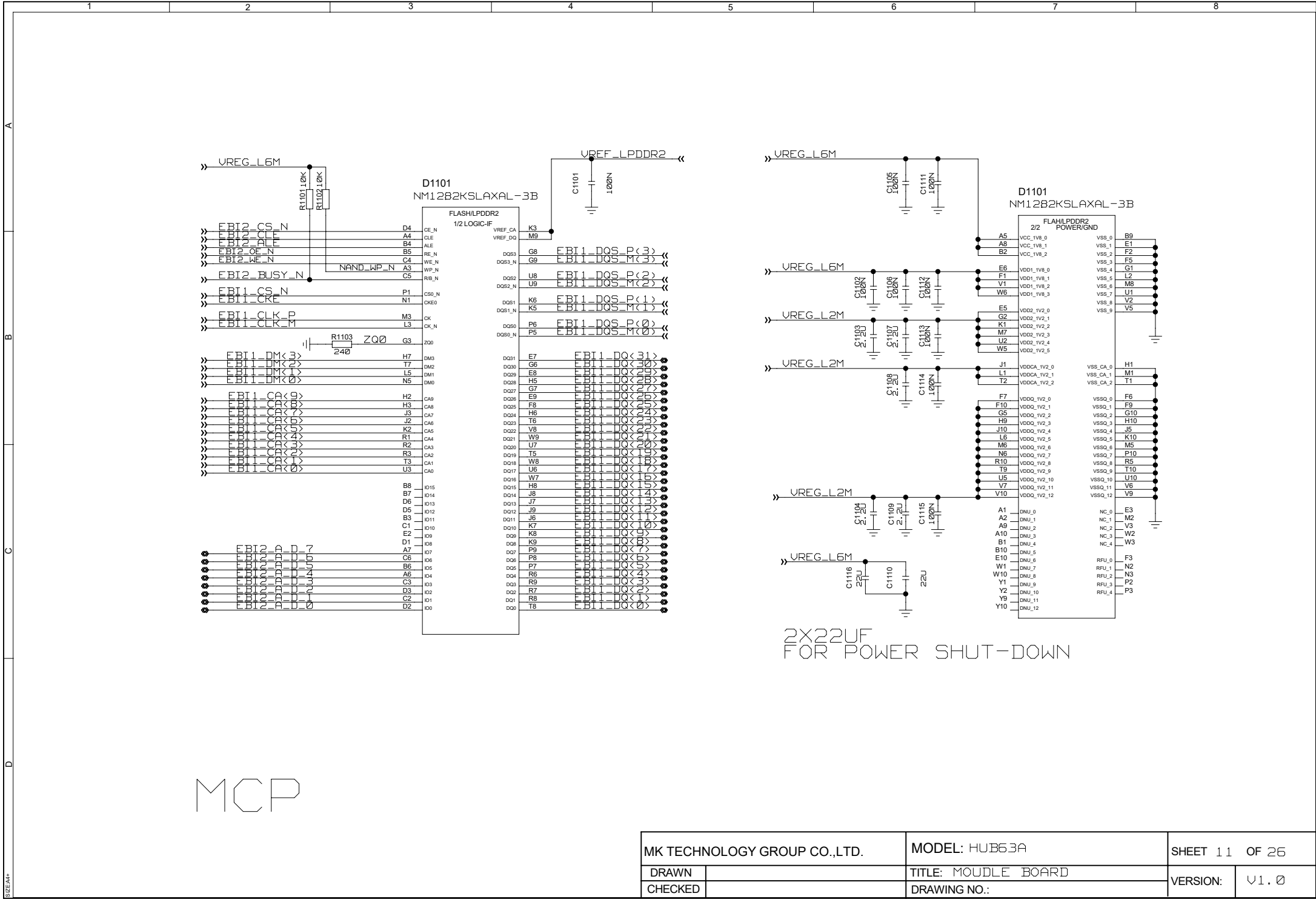
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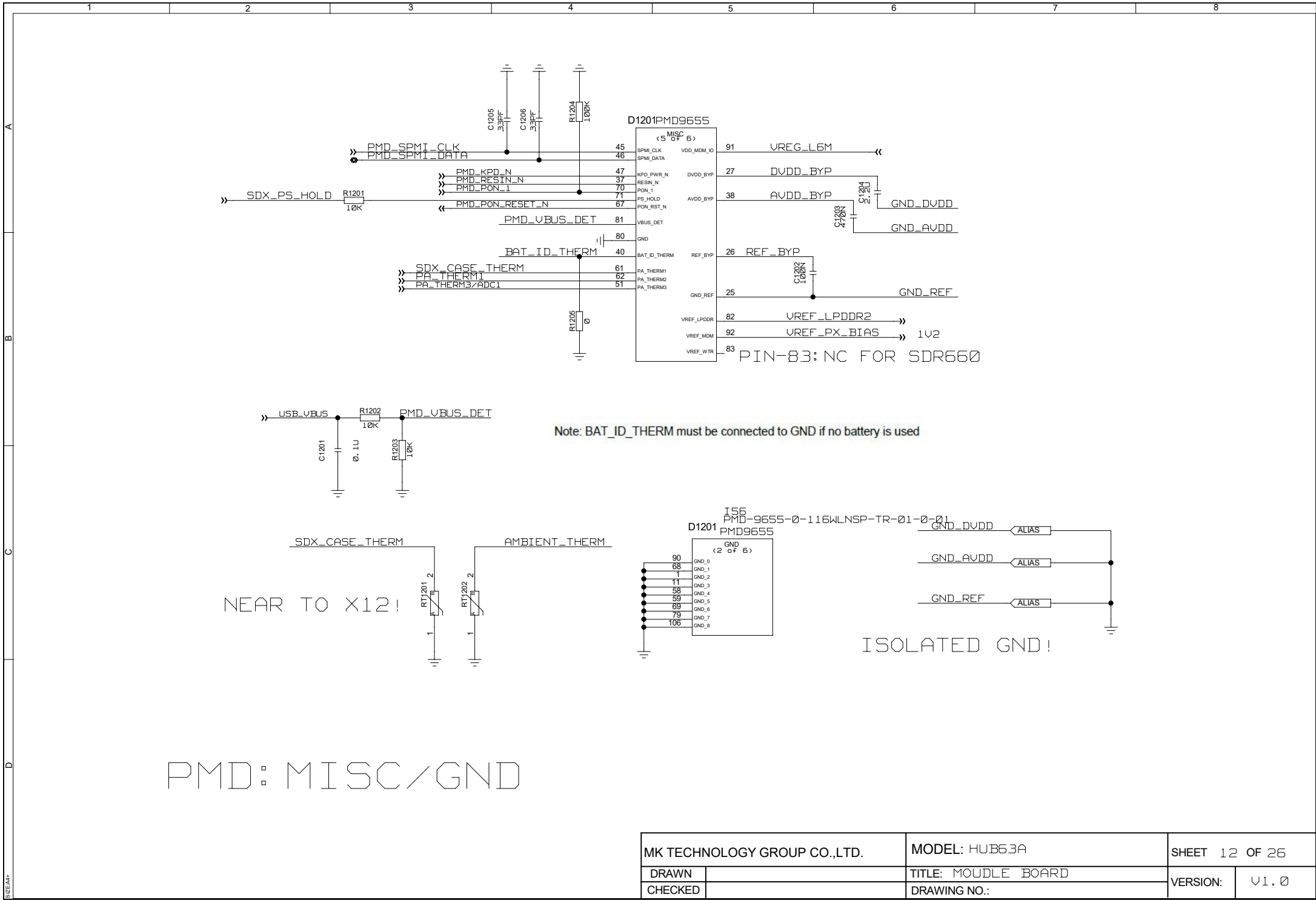
TITLE: MOUDLE BOARD

VERSION: V1.0

CHECKED

DRAWING NO.:







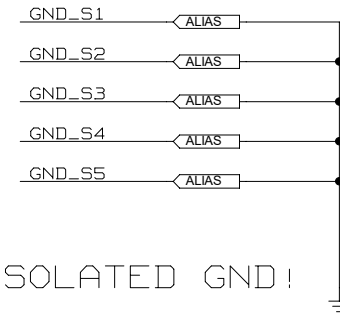
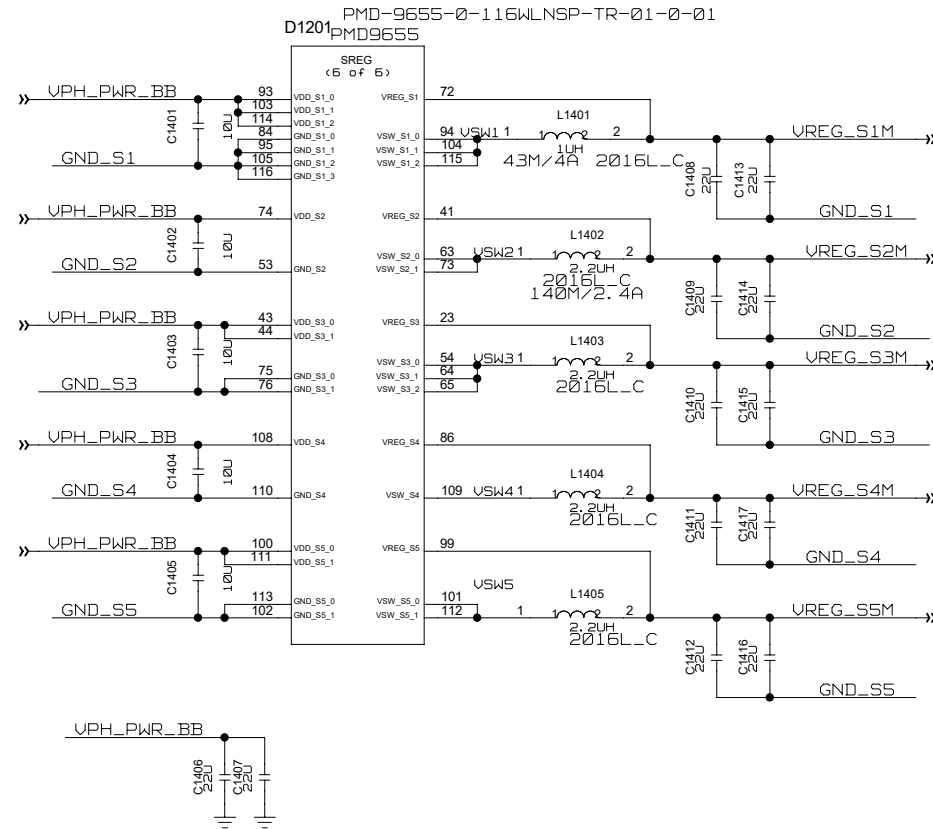
DRAWING NO.:

INDUCTOR,POWER-CHOKE 1.0UH 20% 4.4A
0.0290HM ROHS *L-SW1*

ACB010M9BLCF: 1UH
DCR=0.075 OHM, 3150 MA, N/A, 2400 MA

INDUCTOR,POWER-CHOKE 2.2UH 20% 2.6A
0.0750HM ROHS *L-SW2-5*

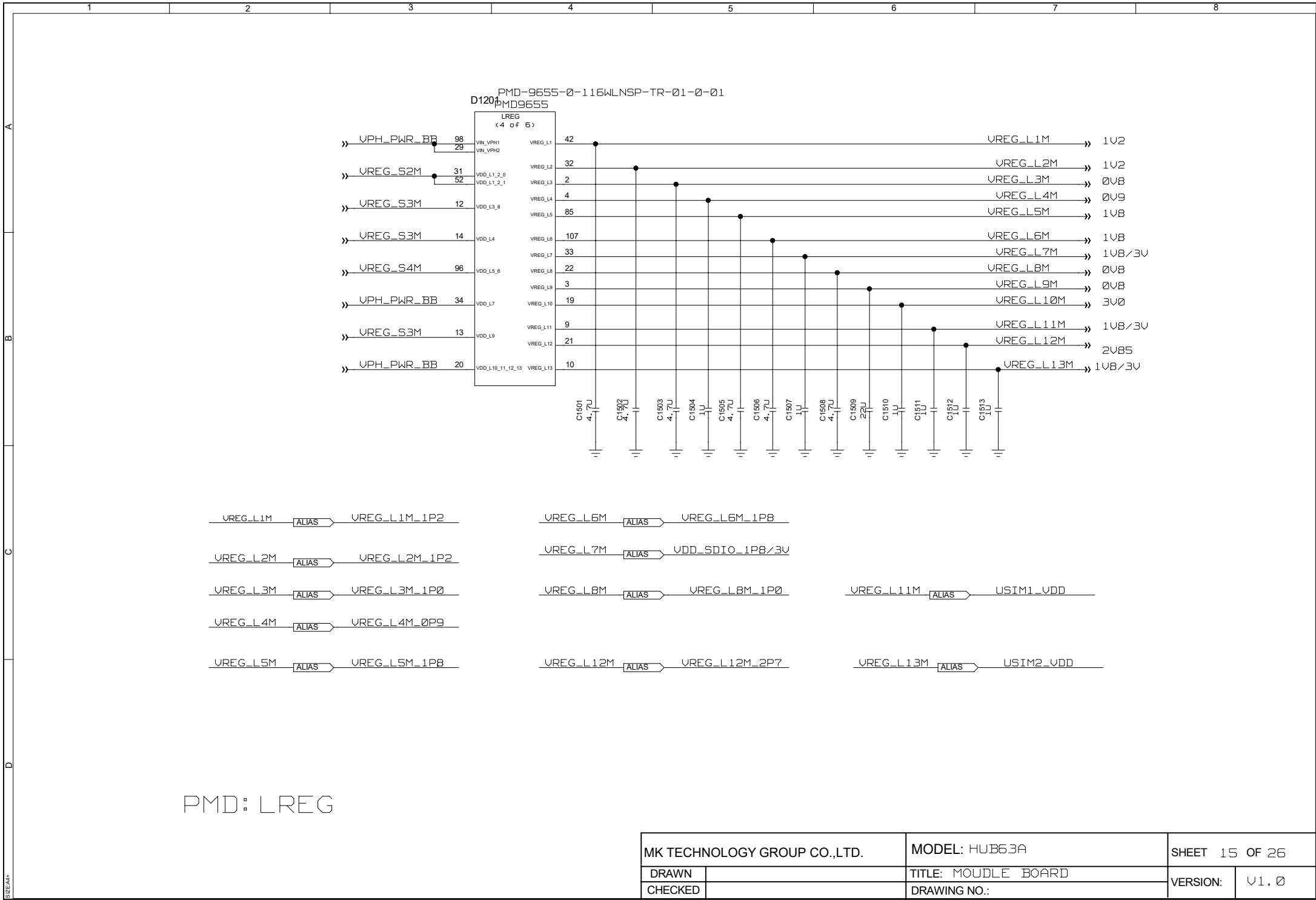
ACB22FM9BJCF: 2.2UH
DCR=0.138 OHM, 2100 MA, N/A, 1450 MA,



PMD: BUCK

MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A		SHEET 14 OF 26	
DRAWN		TITLE: MOUDLE BOARD		VERSION:	V1.0
CHECKED		DRAWING NO.:			

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06E44

SIZE:A4+

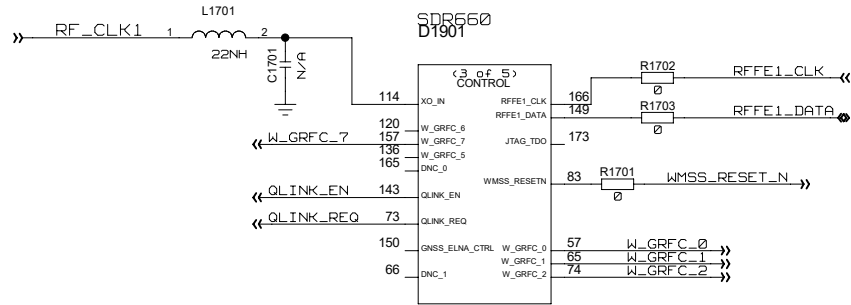
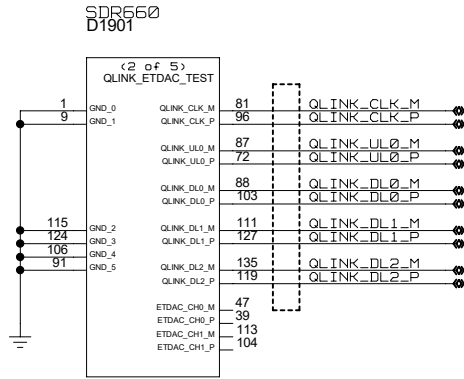
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MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A	SHEET 16 OF 26	
DRAWN		TITLE: MOUDLE BOARD	VERSION:	V1.0
CHECKED		DRAWING NO.:		

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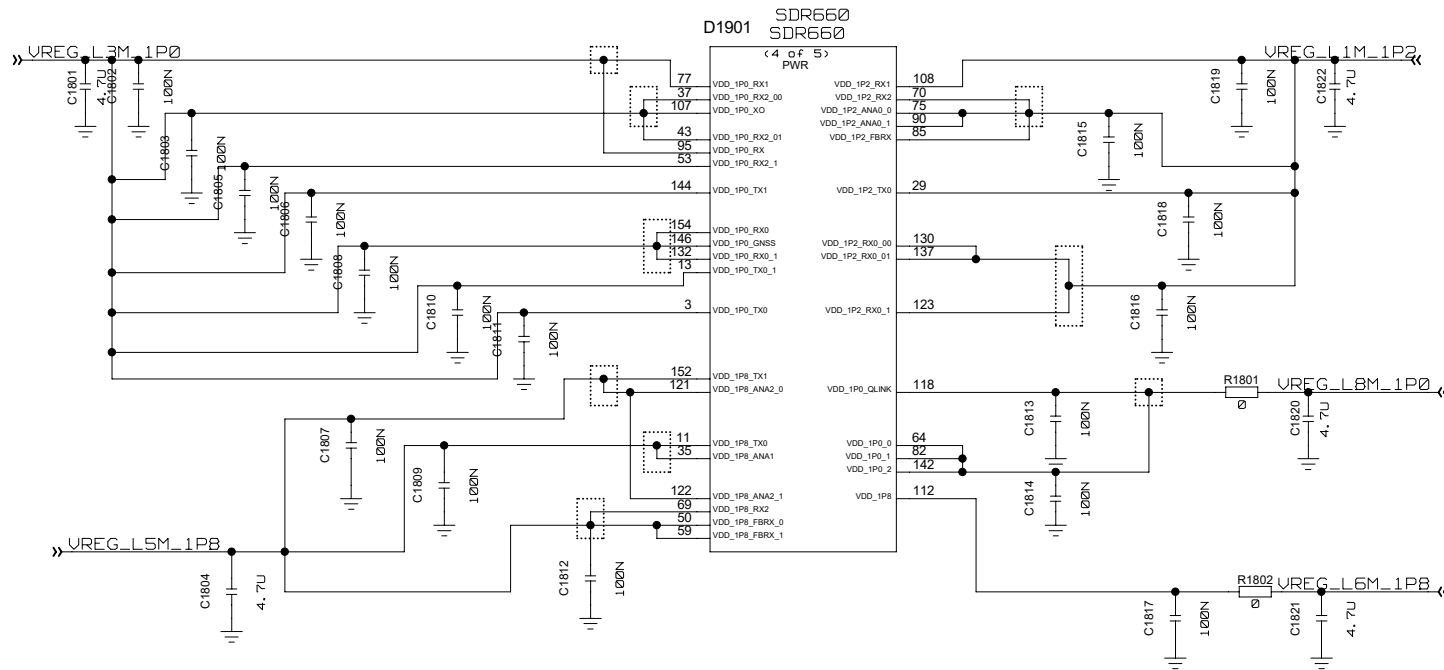
SDR660 MSS



NOTE :- 1) EACH QLINK PAIR SHALL BE ROUTED IN A CHANNEL TOGETHER, ISOLATED FROM OTHER QLINK PAIRS WITH SURROUNDING GND
2) CONTROLLED DIFFERENTIAL IMPEDENCE OF 85 +/-10 OHM TO ROUTE TRACES

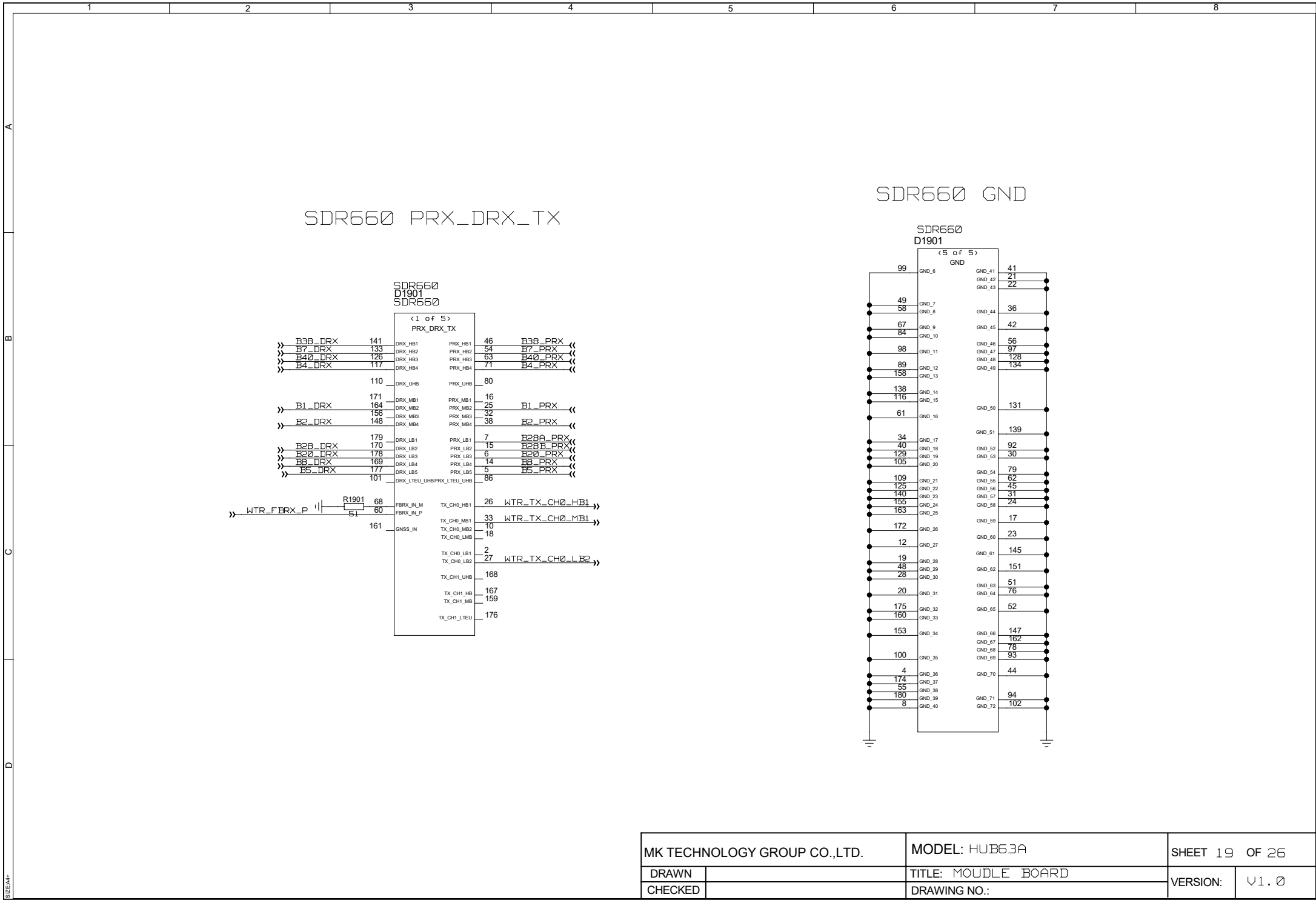
MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A	SHEET 17 OF 26	
DRAWN		TITLE: MOUDLE BOARD	VERSION:	V1.0
CHECKED		DRAWING NO.:		

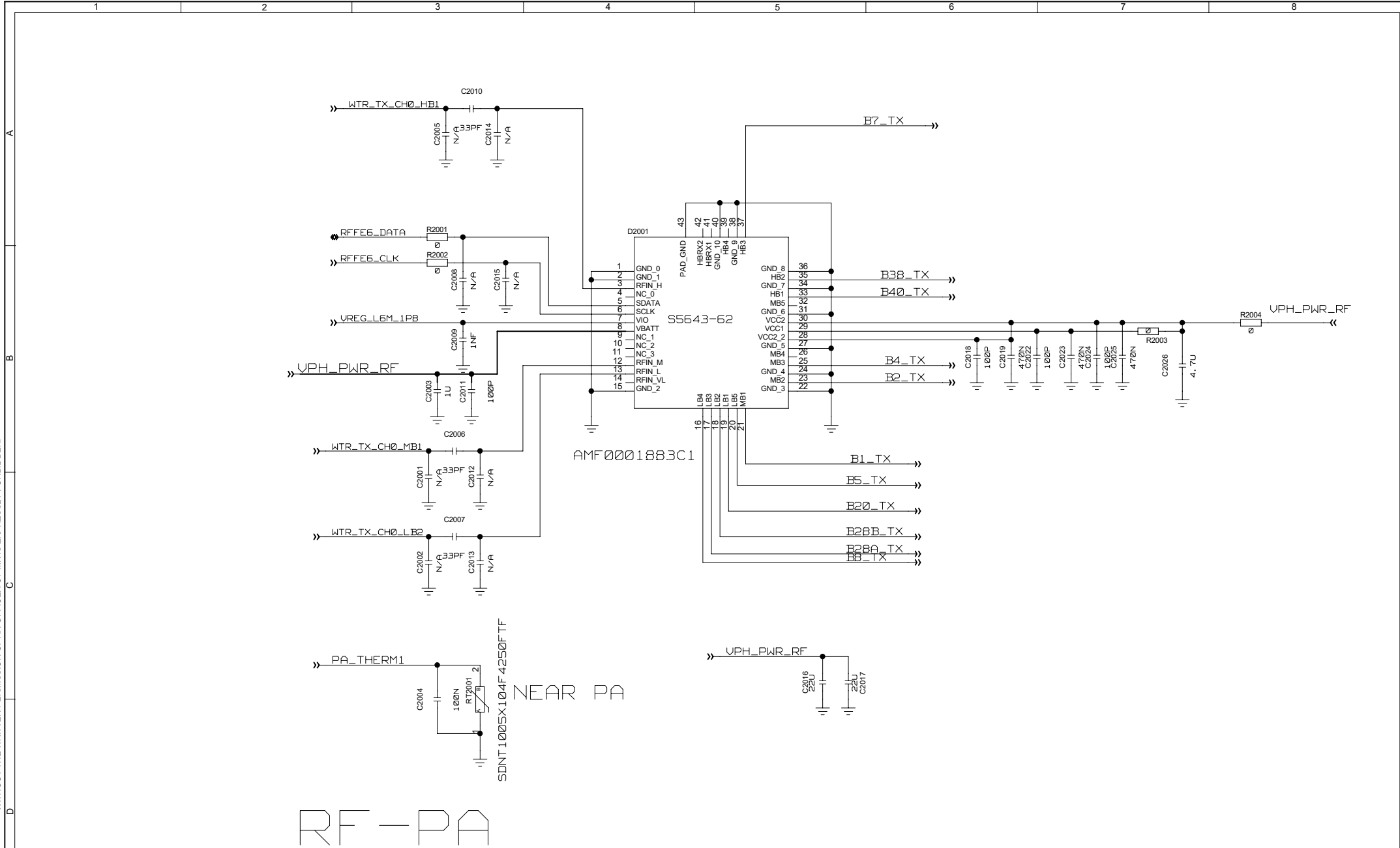
SDR660 POWER



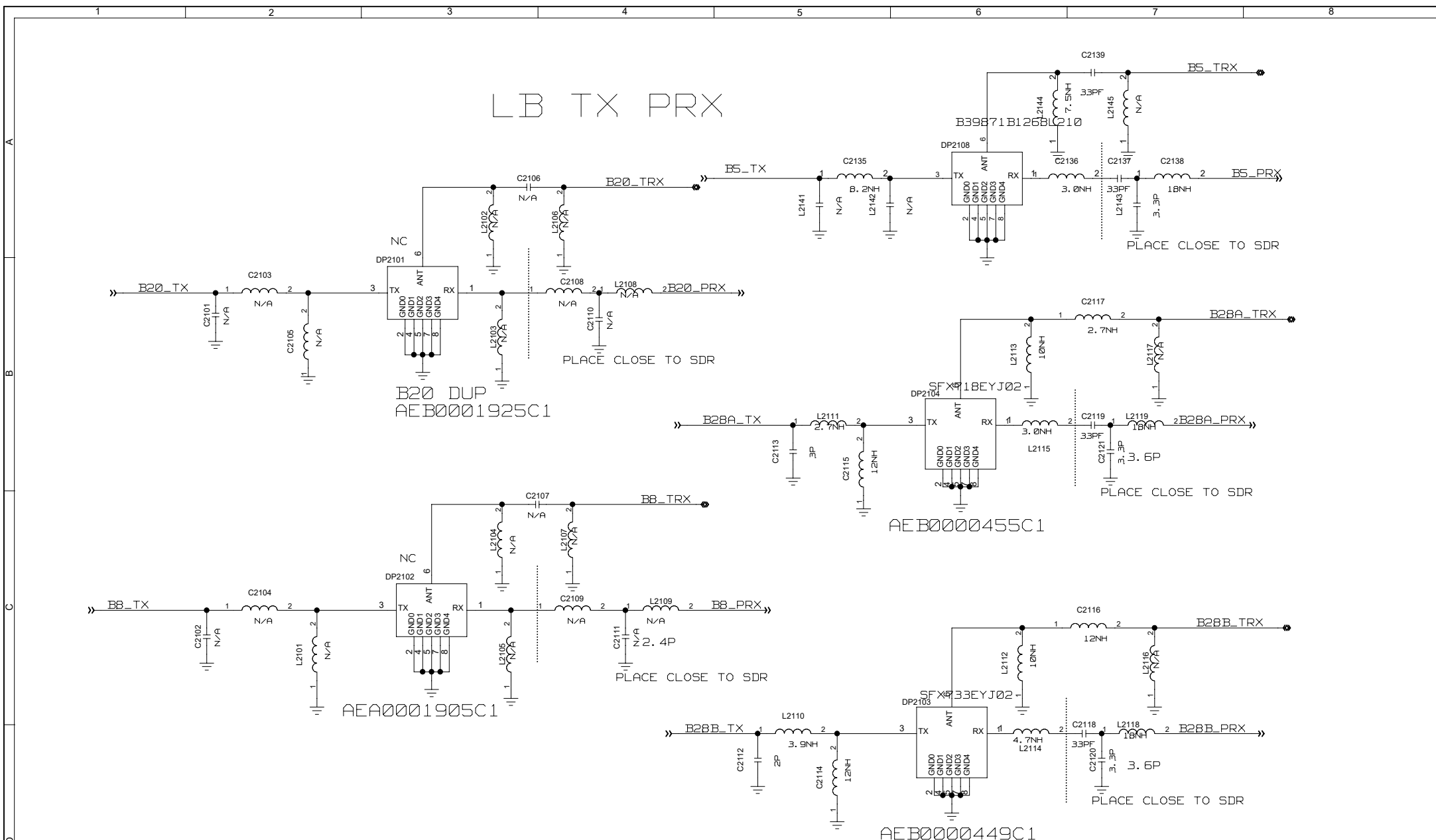
NOTE : DOTTED BOX REPRESENT SDR660 POWER SUPPLY STAR ROUTING

MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A		SHEET 18 OF 26	
DRAWN		TITLE: MOUDLE BOARD		VERSION:	V1.0
CHECKED		DRAWING NO.:			





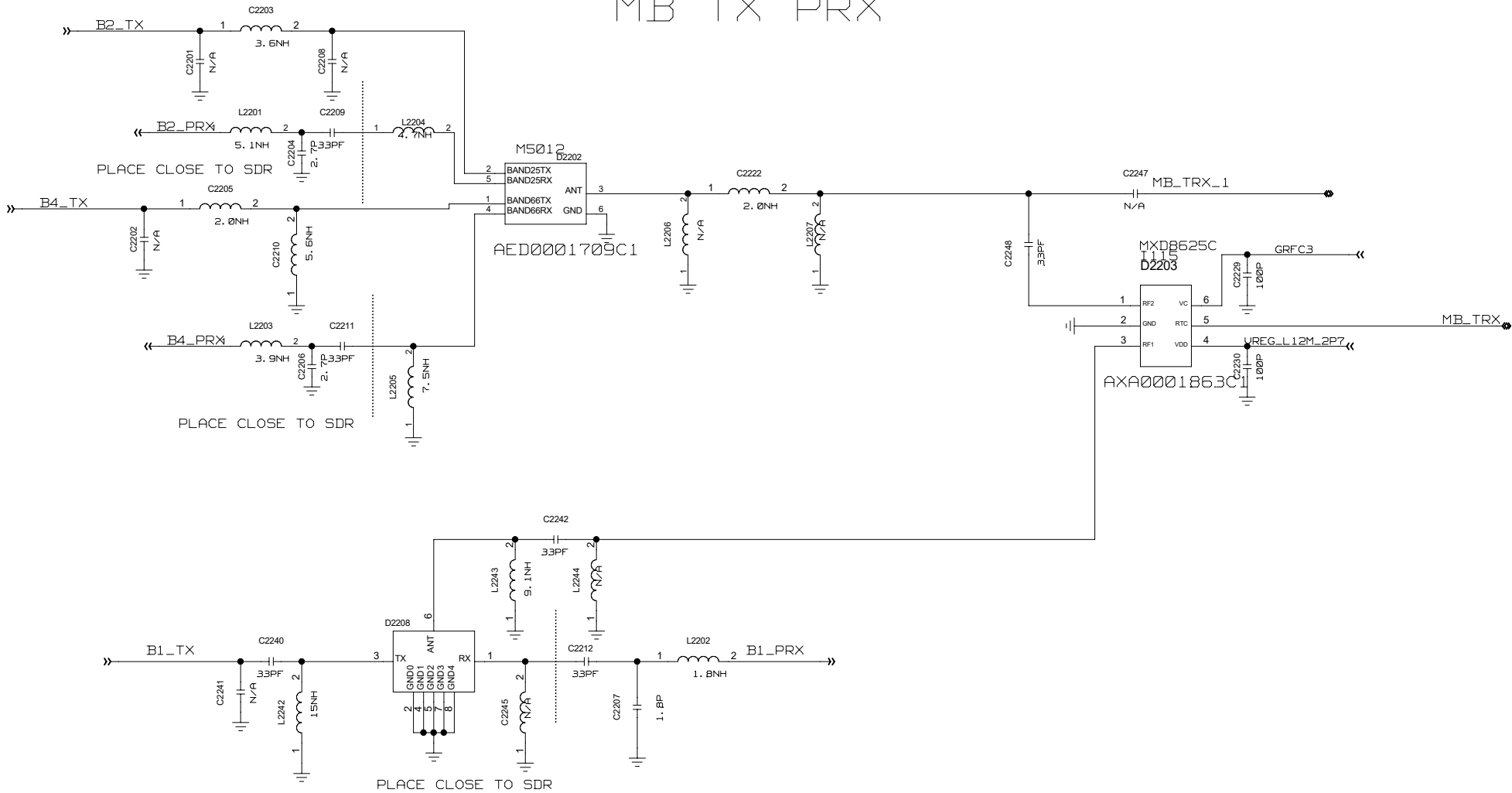
MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A		SHEET 20 OF 26	
DRAWN		TITLE: MOUDLE BOARD		VERSION:	V1.0
CHECKED		DRAWING NO.:			



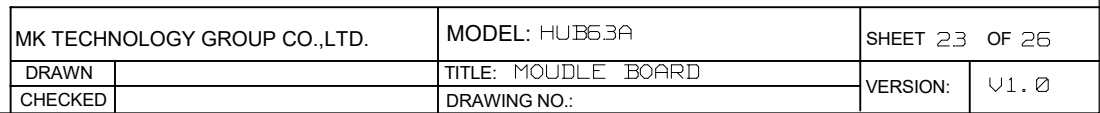
MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A		SHEET 21 OF 26	
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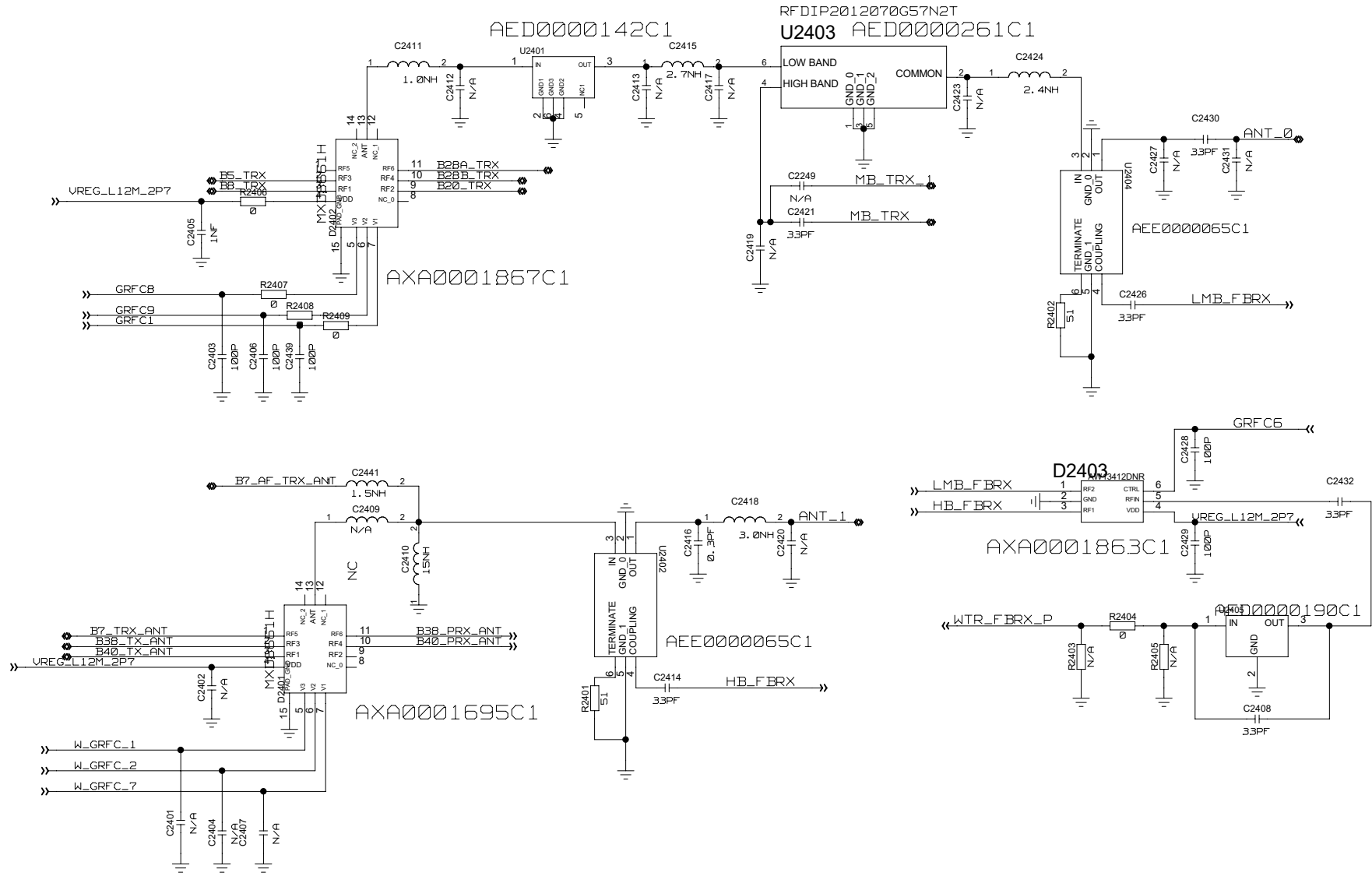
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MB TX PRX



MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A		SHEET 22 OF 26	
DRAWN		TITLE: MOUDLE BOARD		VERSION:	V1.0
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MK TECHNOLOGY GROUP CO.,LTD.		MODEL: HUB63A		SHEET 24 OF 26	
DRAWN		TITLE: MOUDLE BOARD		VERSION:	V1.0
CHECKED		DRAWING NO.:			

