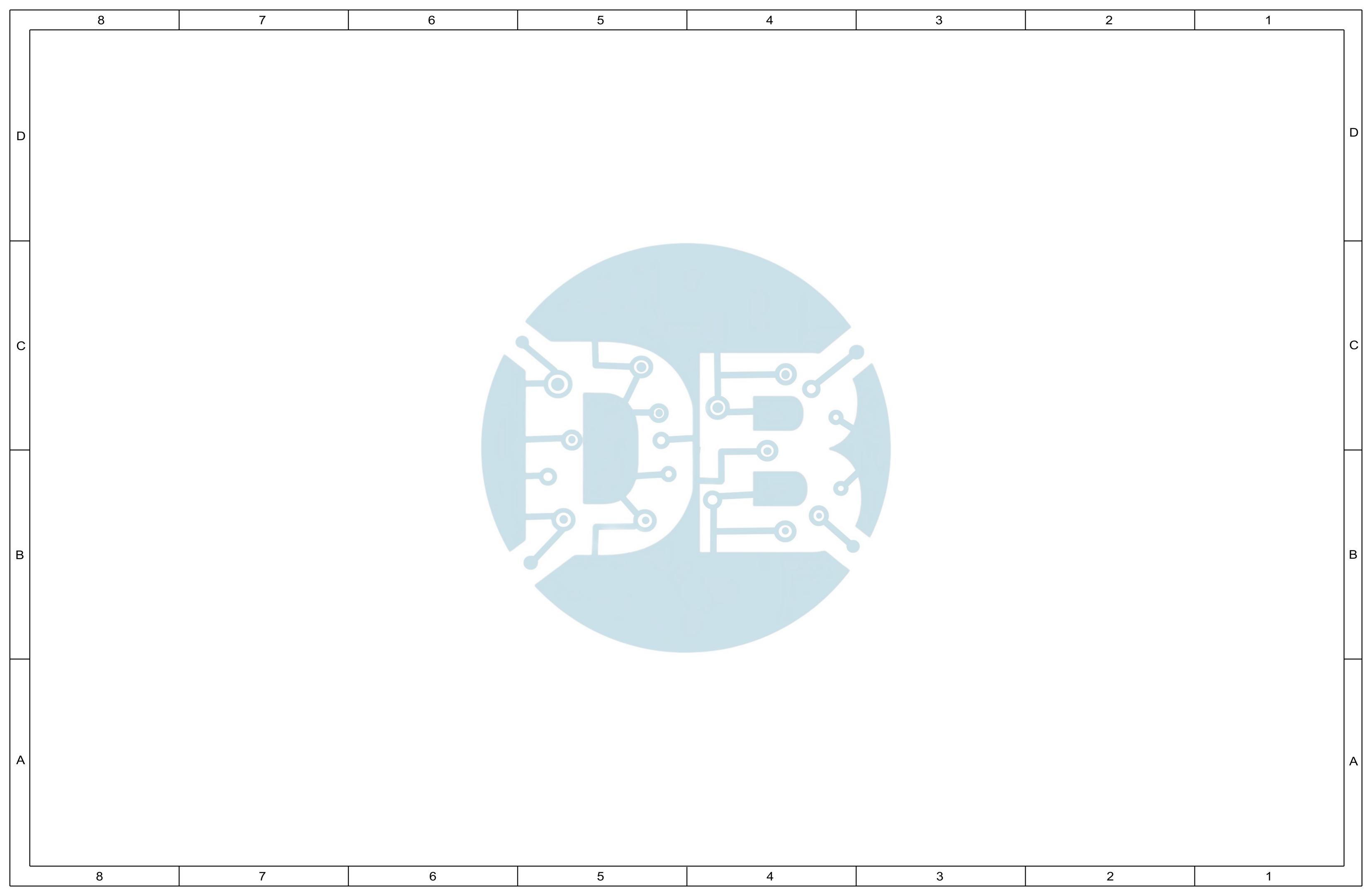
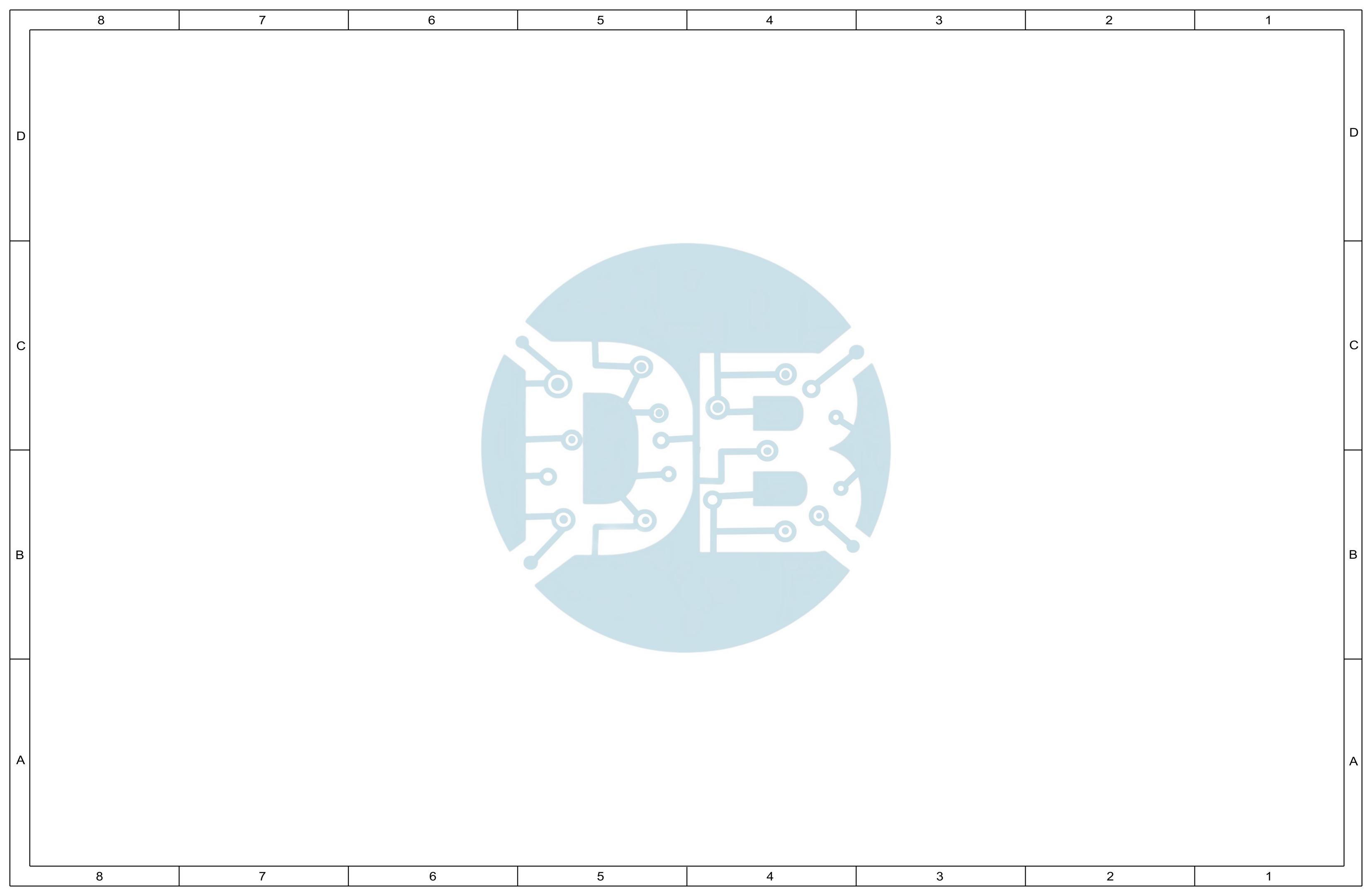
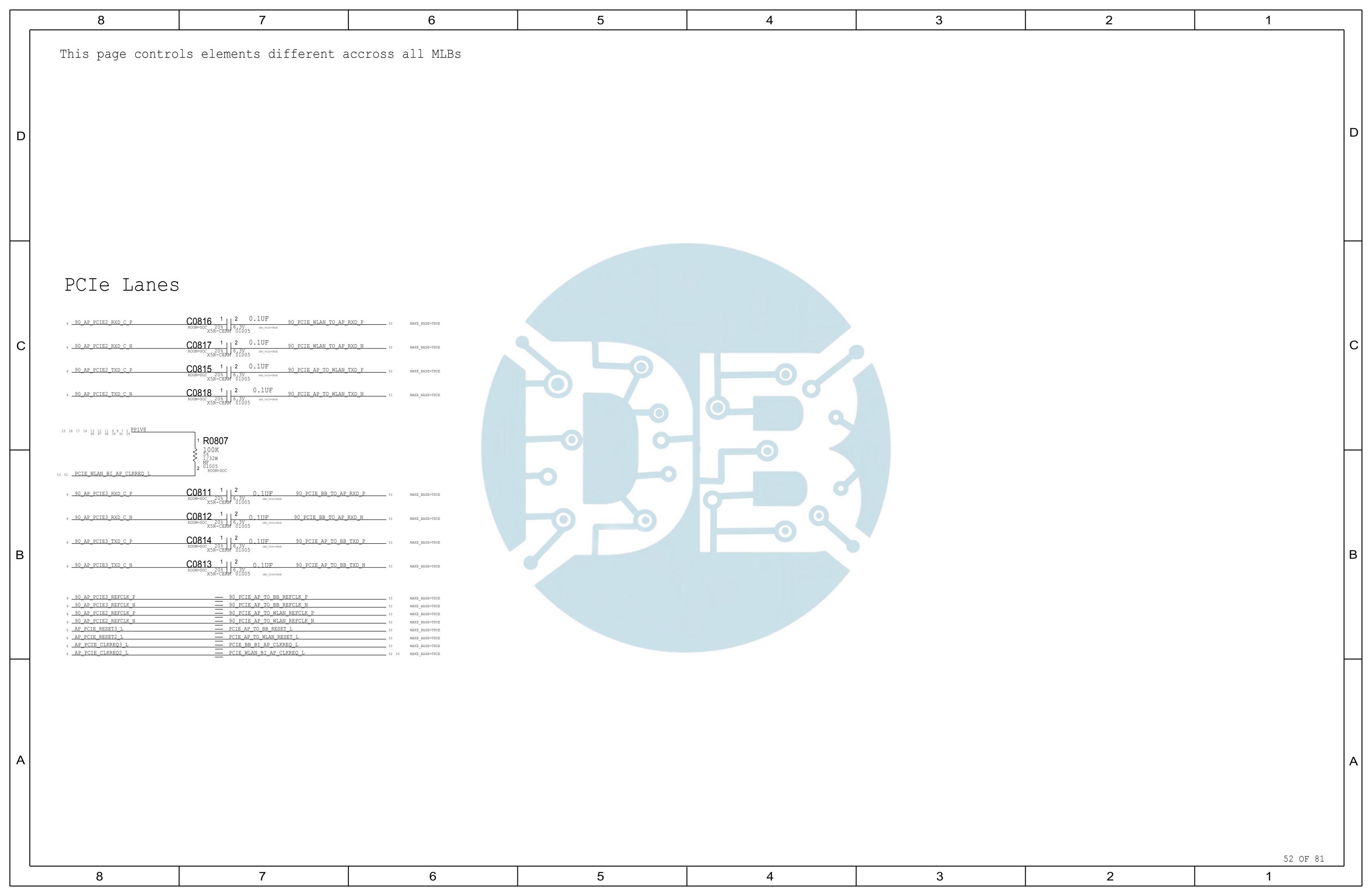
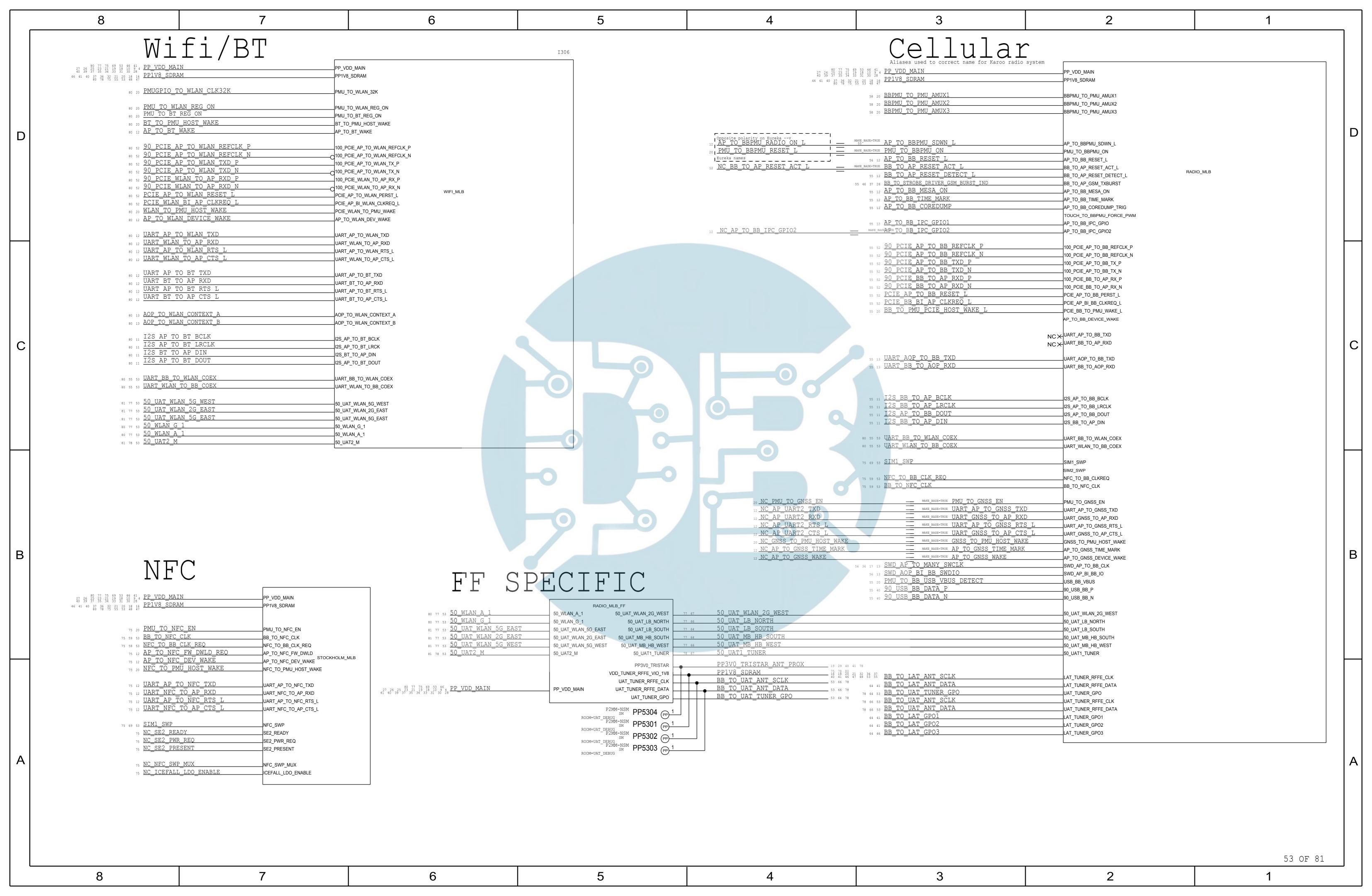


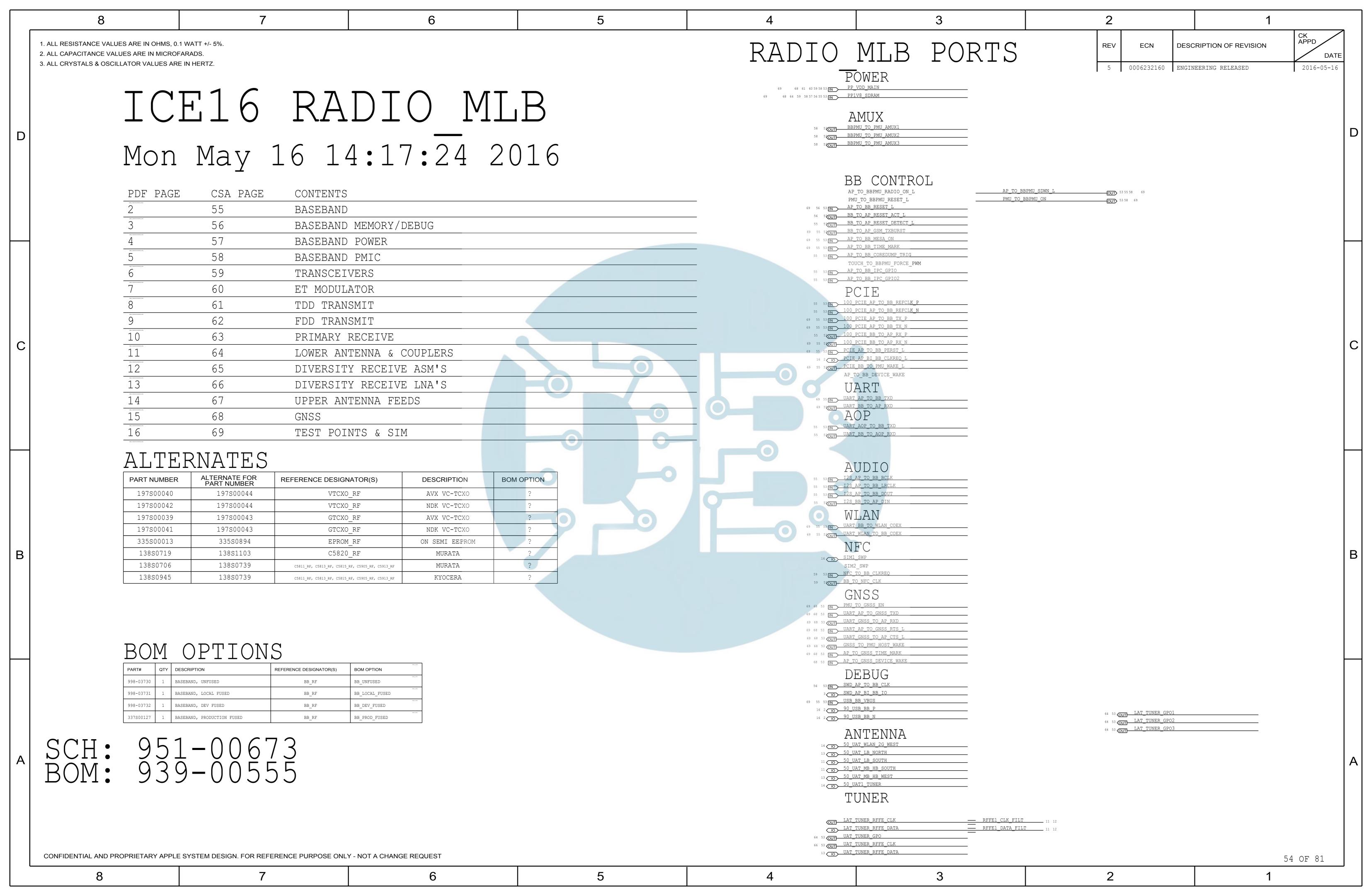
	8	7	6	5		4	3	2	1	
										D
			D1x I	2C Table						
			Bus		1 1	8-bit Address Max Speed				
			ISP I2C0 1MHz	SALT LAKE (PRIMARY)	0010000X 0x10	0x20 1 MHz				
				SALT LAKE (SECONDARY) GRUNBERG (STANDARD)	0110000X 0x30 0011100X 0x1C	0x60 1 MHz 0x38 1 MHz				
				GRUNBERG (SPECIAL ABSOLUTE R/W)		0x3A 1 MHz				
				GRUNBERG (SPECIAL DELTA READ)	0011110X 0x1E	0x3C 1 MHz				
				STROBE 1	1100011X 0x63	0xC6 1 MHz				
			ISP I2C1	LAS VEGAS (PRIMARY)	0100000X 0x20	0x40 1 MHz				
			1MHz	LAS VEGAS (SECONDARY)	0110000X 0x30	0x60 1 MHz				
C				EDWIN	1100011X 0x63	0xC6 400 kHz				c
				STROBE 2	0000110X 0x06	0x0C 1 MHz				
			ISP I2C2 400kHz	CONCORD	0010000X 0x10	0x20 1 MHz				
			AOP I2C	ARC DRIVER 1	100000YX 0x41	0x82 1 MHz				
			1MHz	PROX	1011000X 0x58	0xB0 1 MHz				
				SPKAMP1 (L26)	100000YX 0x40	0x80 1 MHz				
				TURTLE	0101100X 0x2c	0x58 400 kHz				
				MESA	1100001X 0x61	0xC2 400 kHz			_	_
			Touch I2C 600kHz	MAMBA	1100000X 0x60	0xC0 1 MHz				
				MESON	1000000X 0x40	0x80 510 kHz				
			EEPROM 120		1010001X 0x51	0xA2 400 kHz				
			AP I2C0 400kHz	BOOST	1110101X 0x75	0xEA 3.4 MHz				
				TRISTAR BACKLIGHT 1	0011010X 0x1A 1100010X 0x62	0x34 400 kHz 0xC4 1 MHz				
				CHESTNUT	0100111X 0x27	0x4E 400 kHz				
В			AP I2C1	ADELYN	1110100X 0x74	0xE8 400 kHz			1	В
			400kHz	TIGRIS	1110101X 0x75	0xEA 400 kHz				
				BACKLIGHT 2	1100010X 0x62	0xC4 1 MHz				
			AP I2C2	ALS	0101001X 0x29	0x52 400 kHz				
			400kHz	CONVOY	0100001X 0x21	0x42 3.4 MHz				
					0100010X 0x22	0x44 400 kHz				
			AD 1000	SPKAMP 2 (L26)	10000ZYX 0x40	0x80 400 MHz				
			AP I2C3 100kHz	DOCK FLEX (MIC1) COMBINED BUTTON FLEX (MIC2)	1010100X 0x54 1010100X 0x56	0xA8 1 MHz 0xAC 1 MHz				
				DISP EEPROM	1010100X 0x56	0xAC 1 MHZ 0xA2 400kHz				
			Homer I2C	SCHRODINGER (STANDARD)	0001110X 0xE	0x1C 1 MHz				
			1MHz	SCHRODINGER (CAL REG'S)	0001111X 0xF	0x1D 1 MHz				
				EEPROM (STANDARD)	1010000X 0x50	0xA0				
				EEPROM (CONFIG)	1010000X 0x50	0xA0				
A										A
									49 OF 81	
	Ω	7	6	<u></u>		1	2	2	1	
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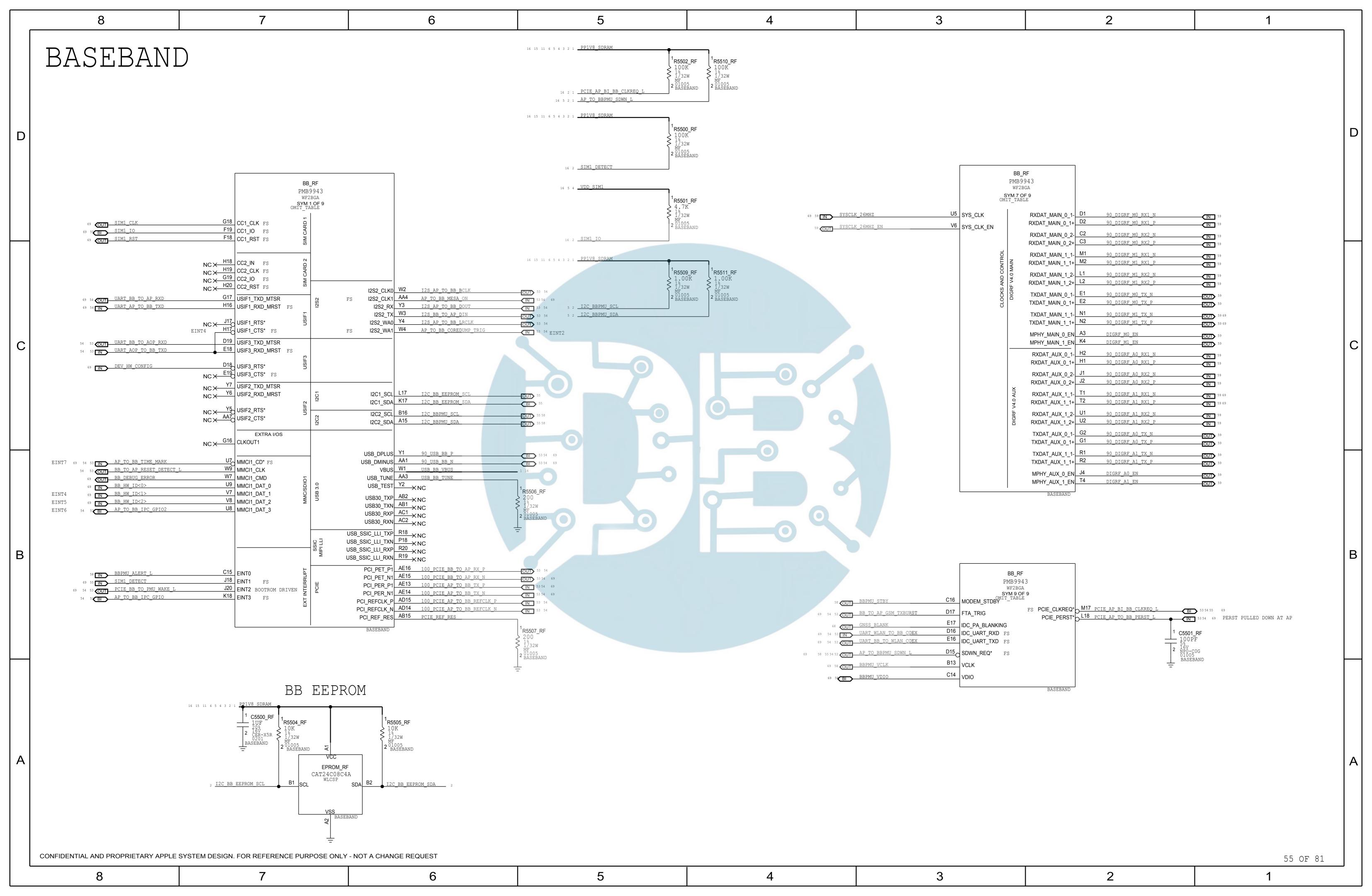


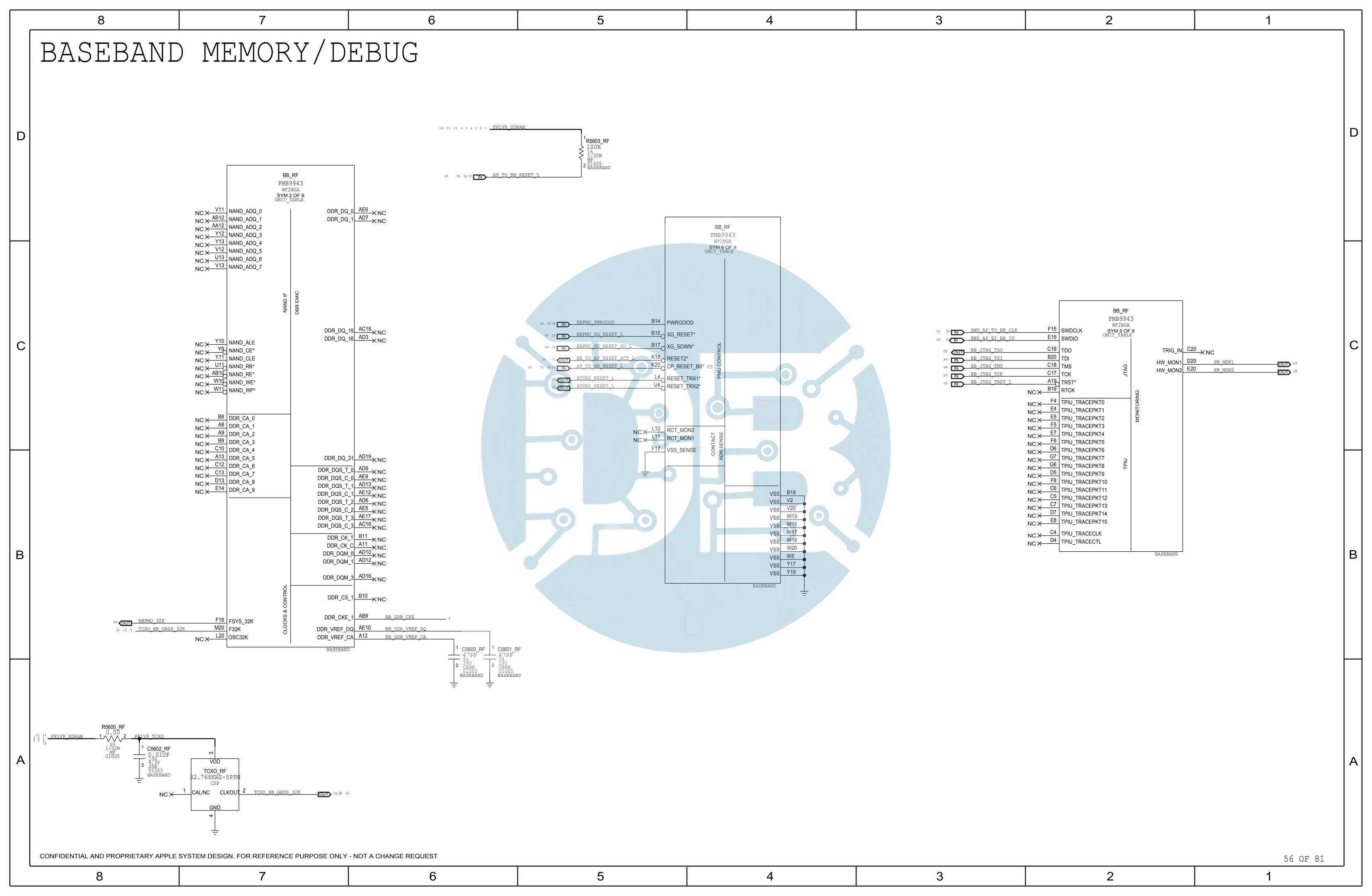


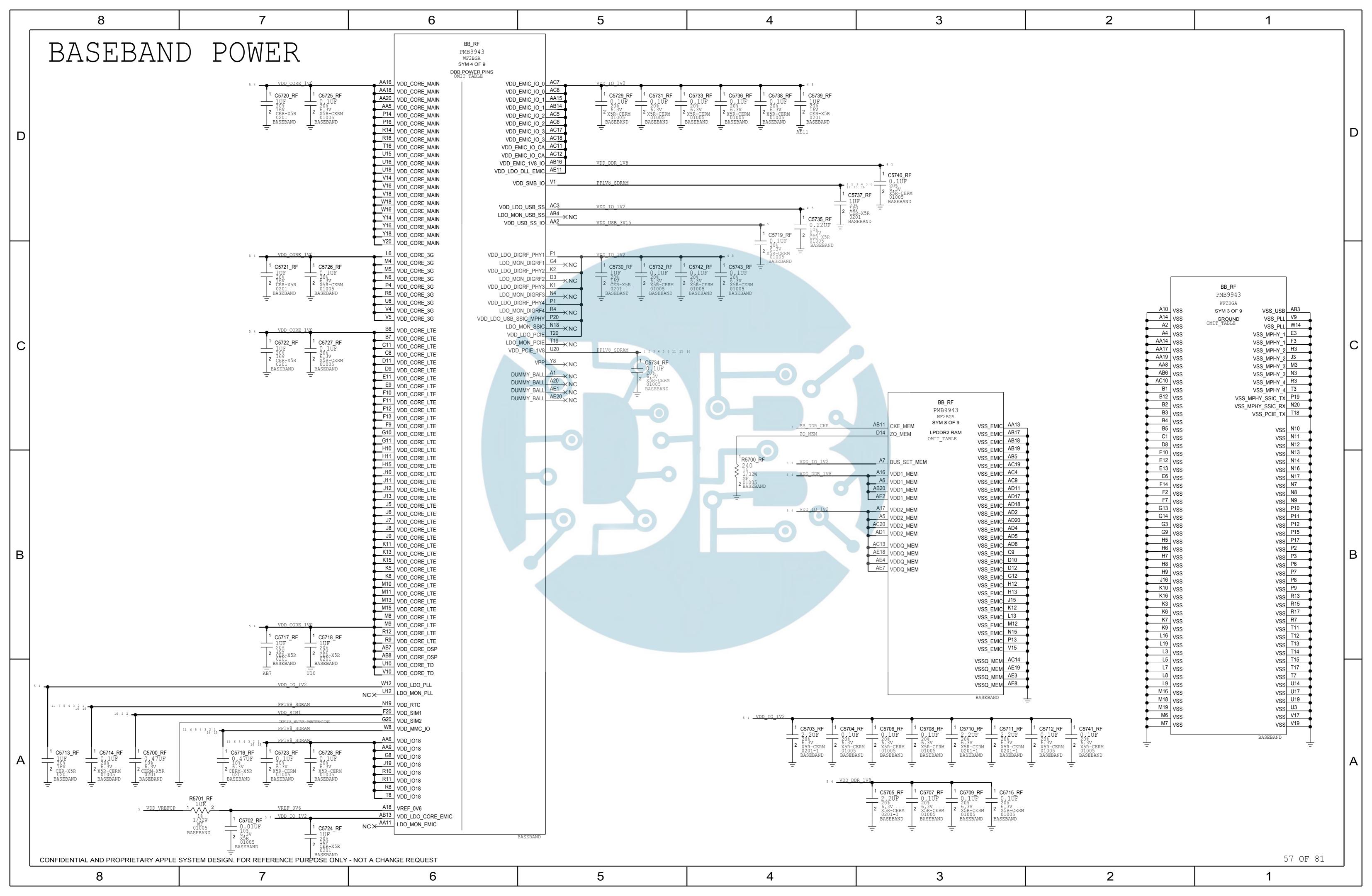


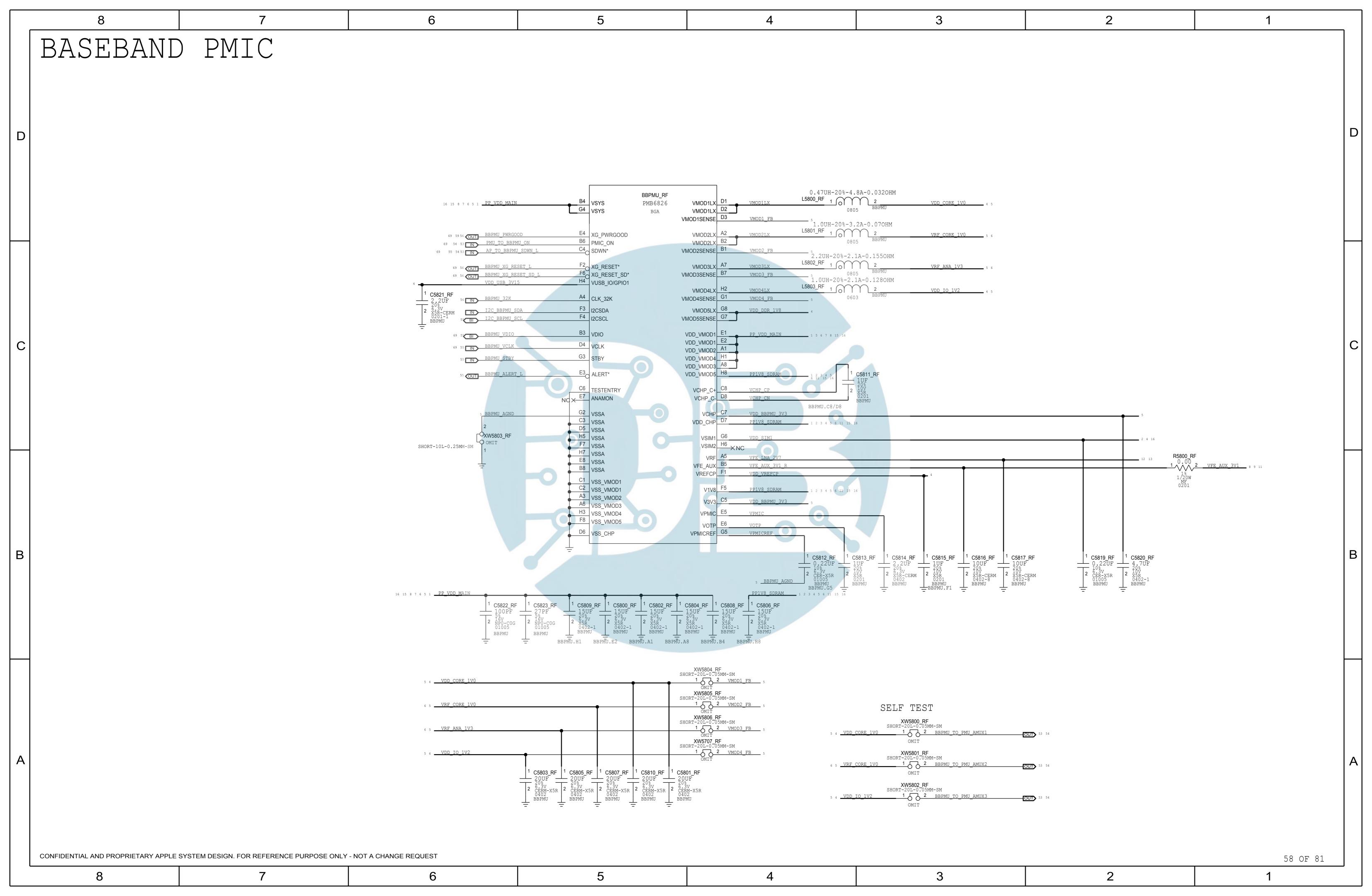


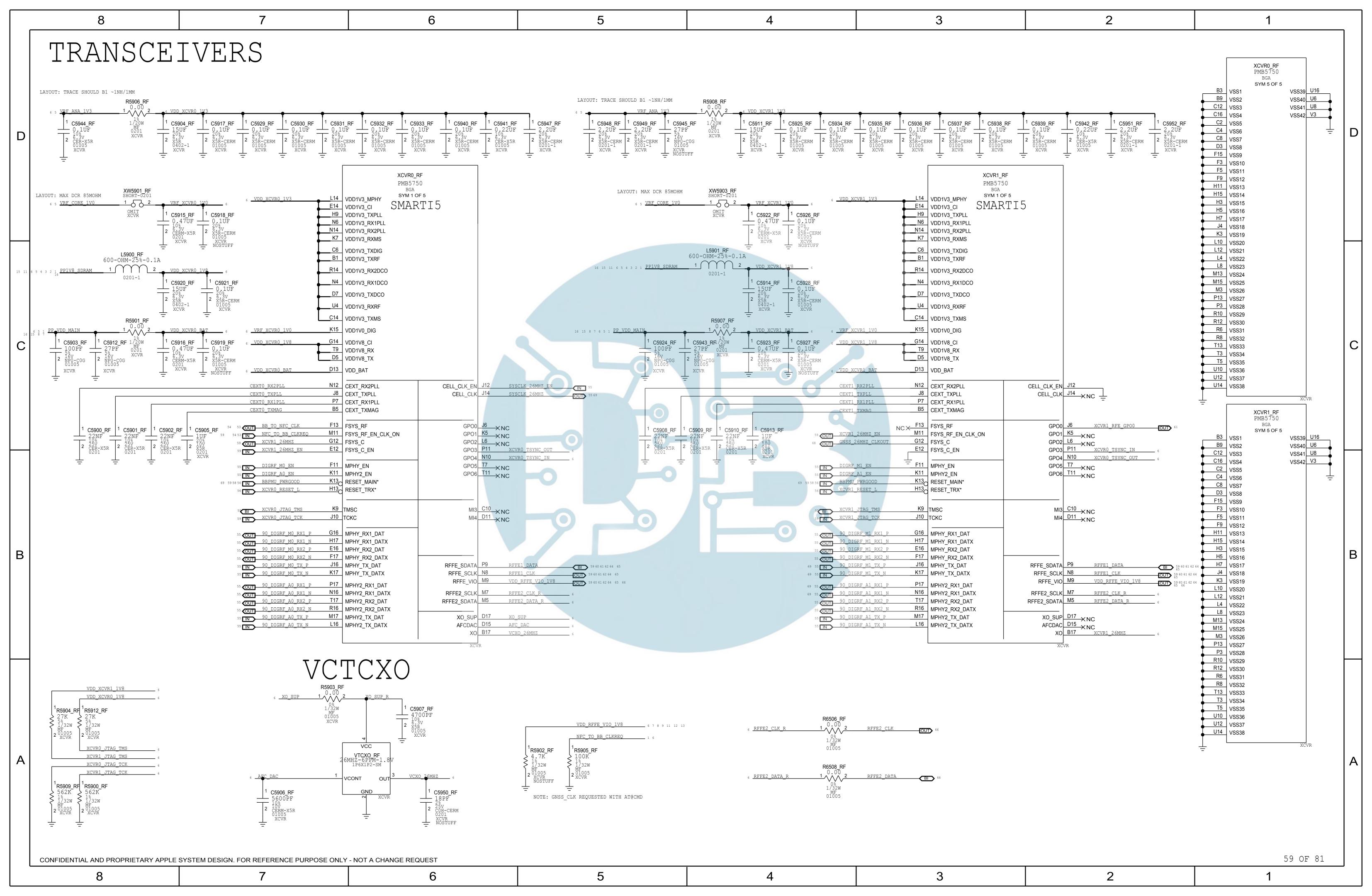


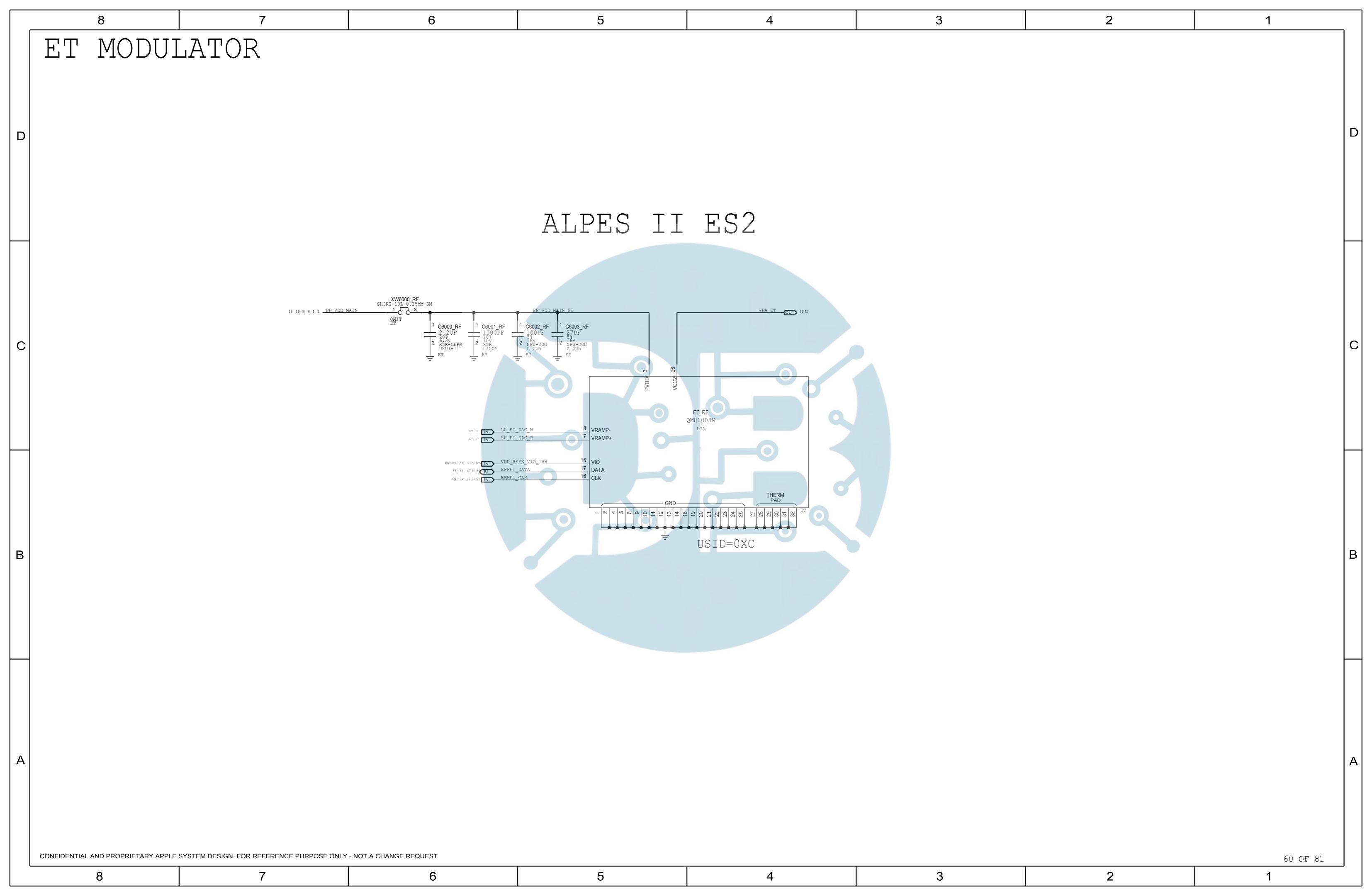


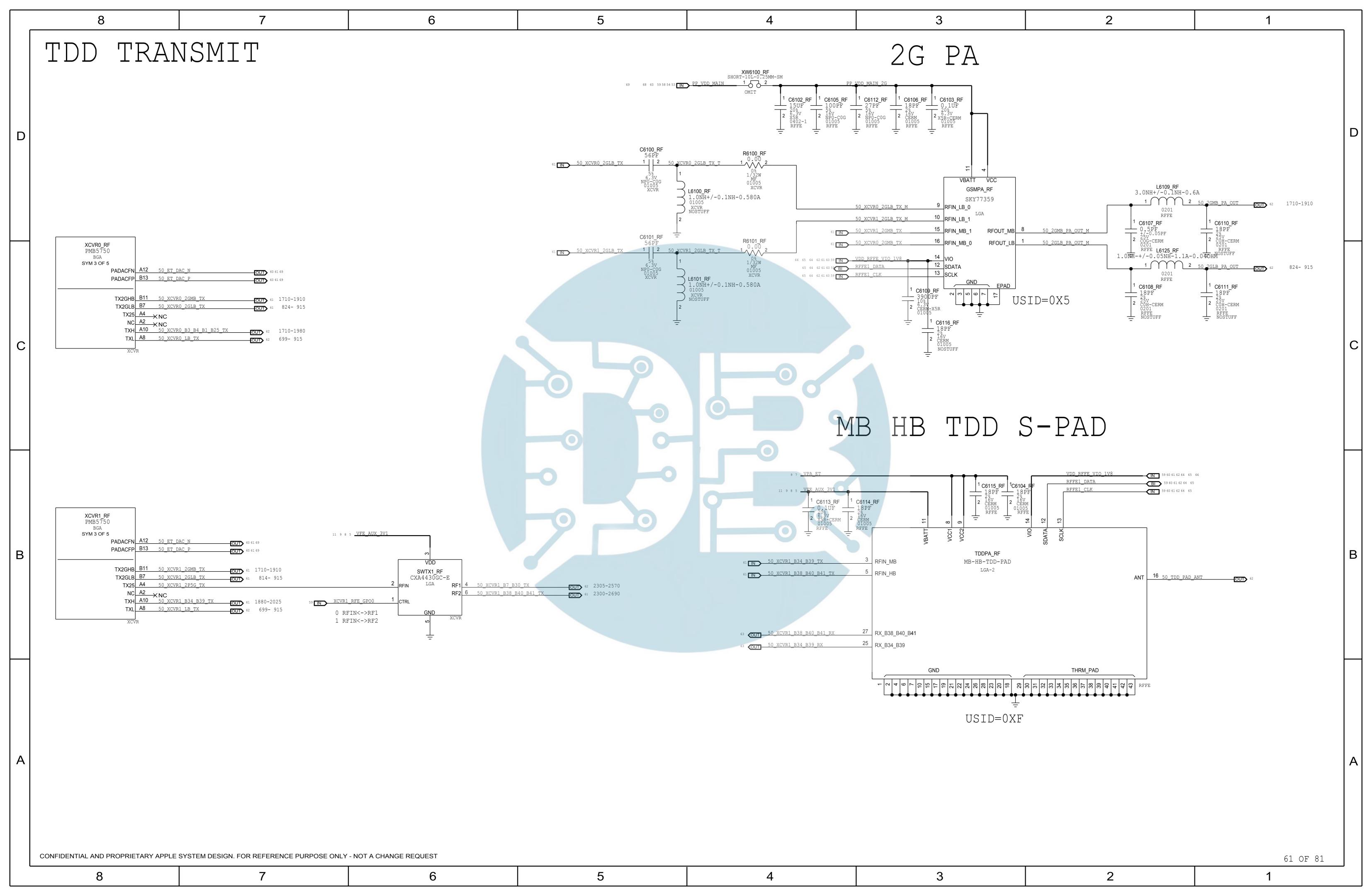


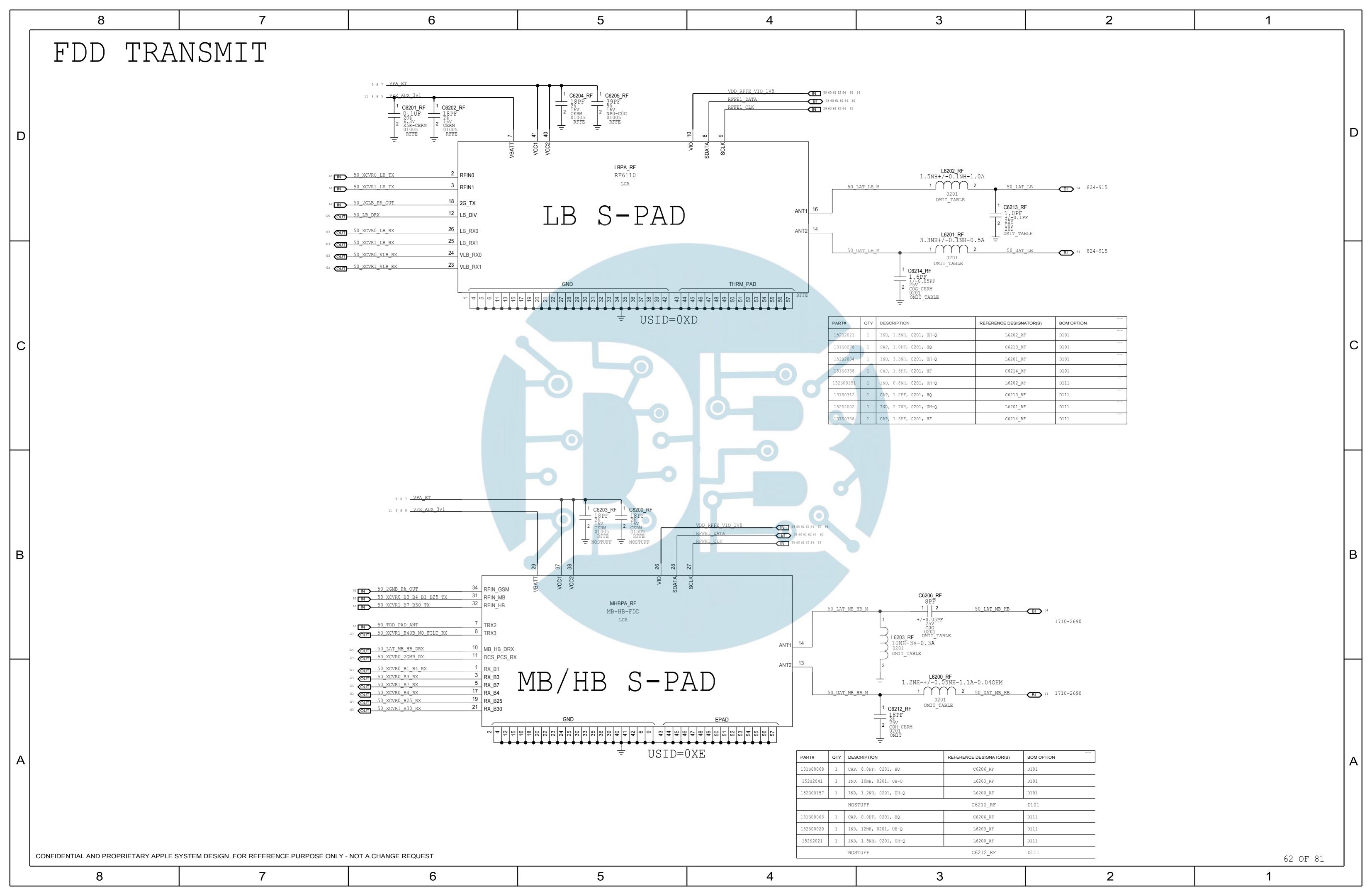


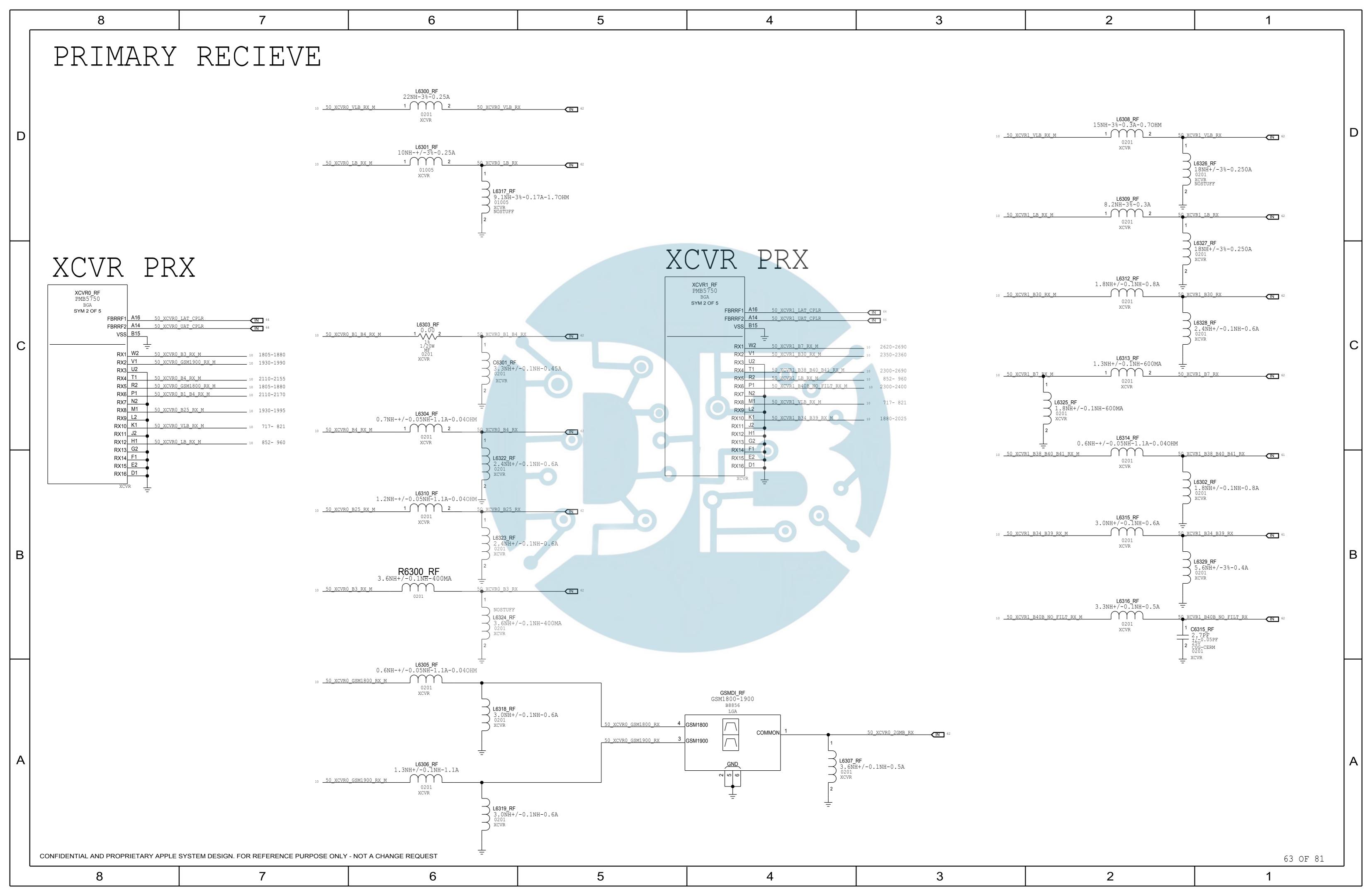


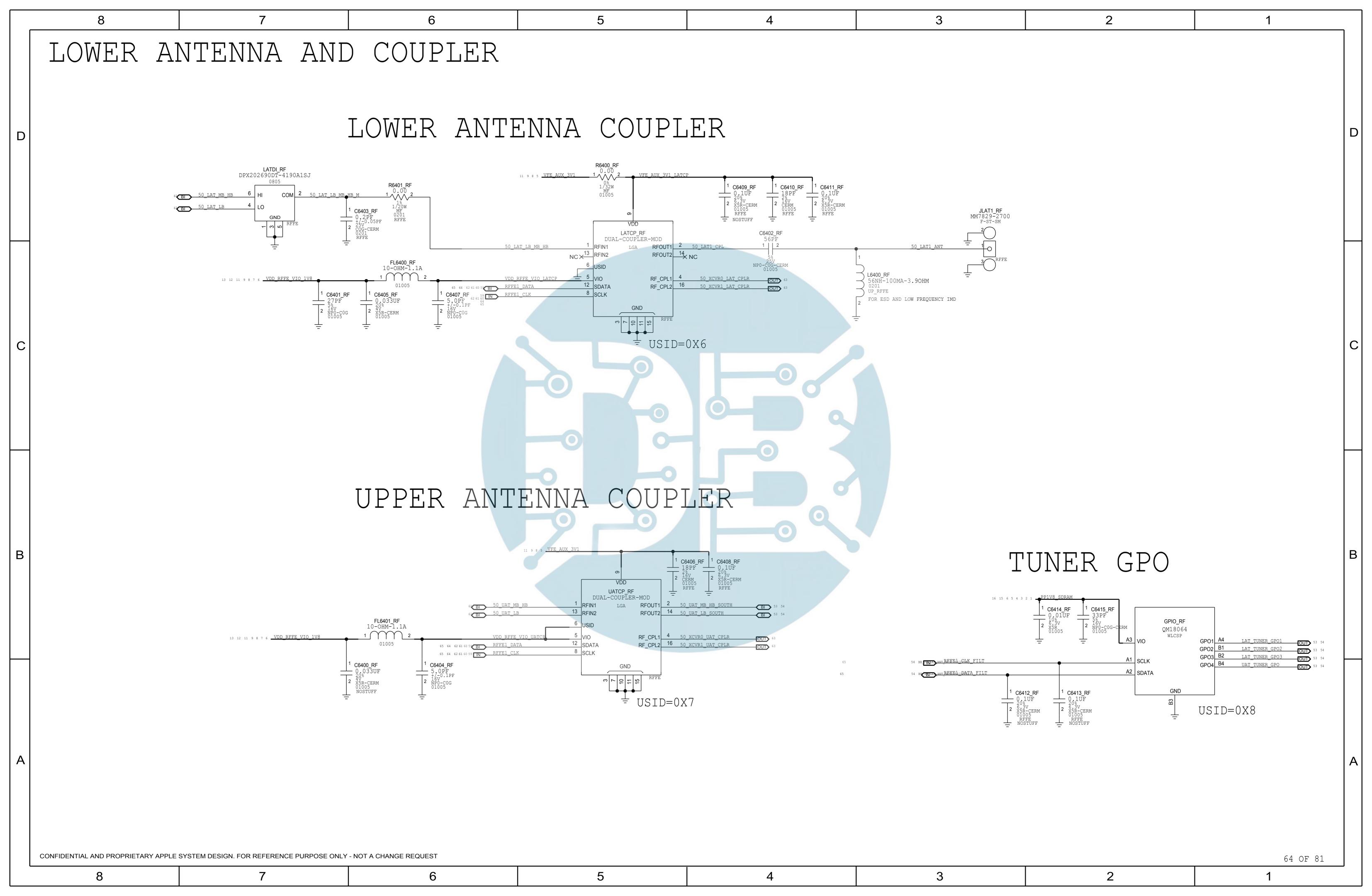


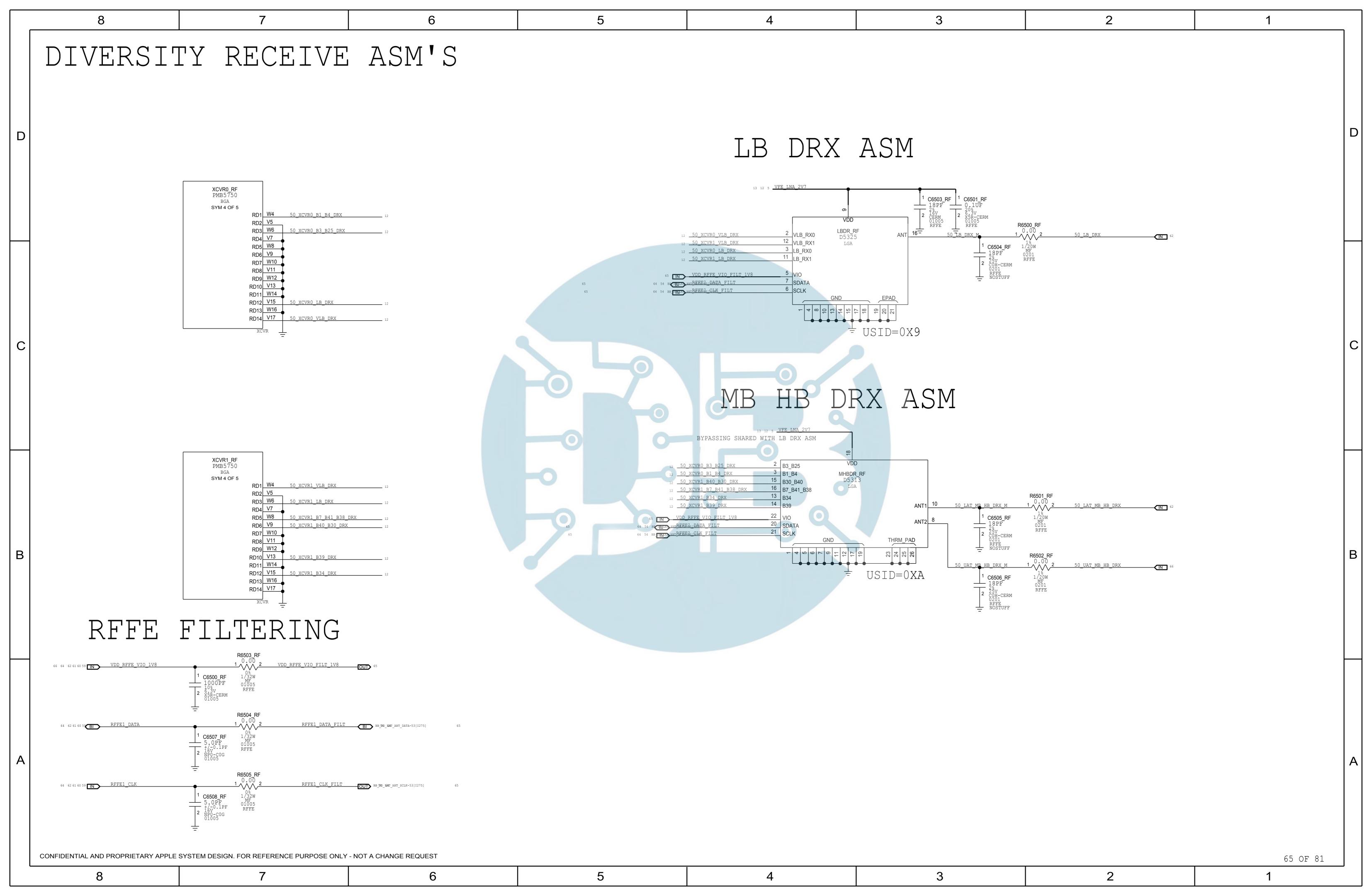


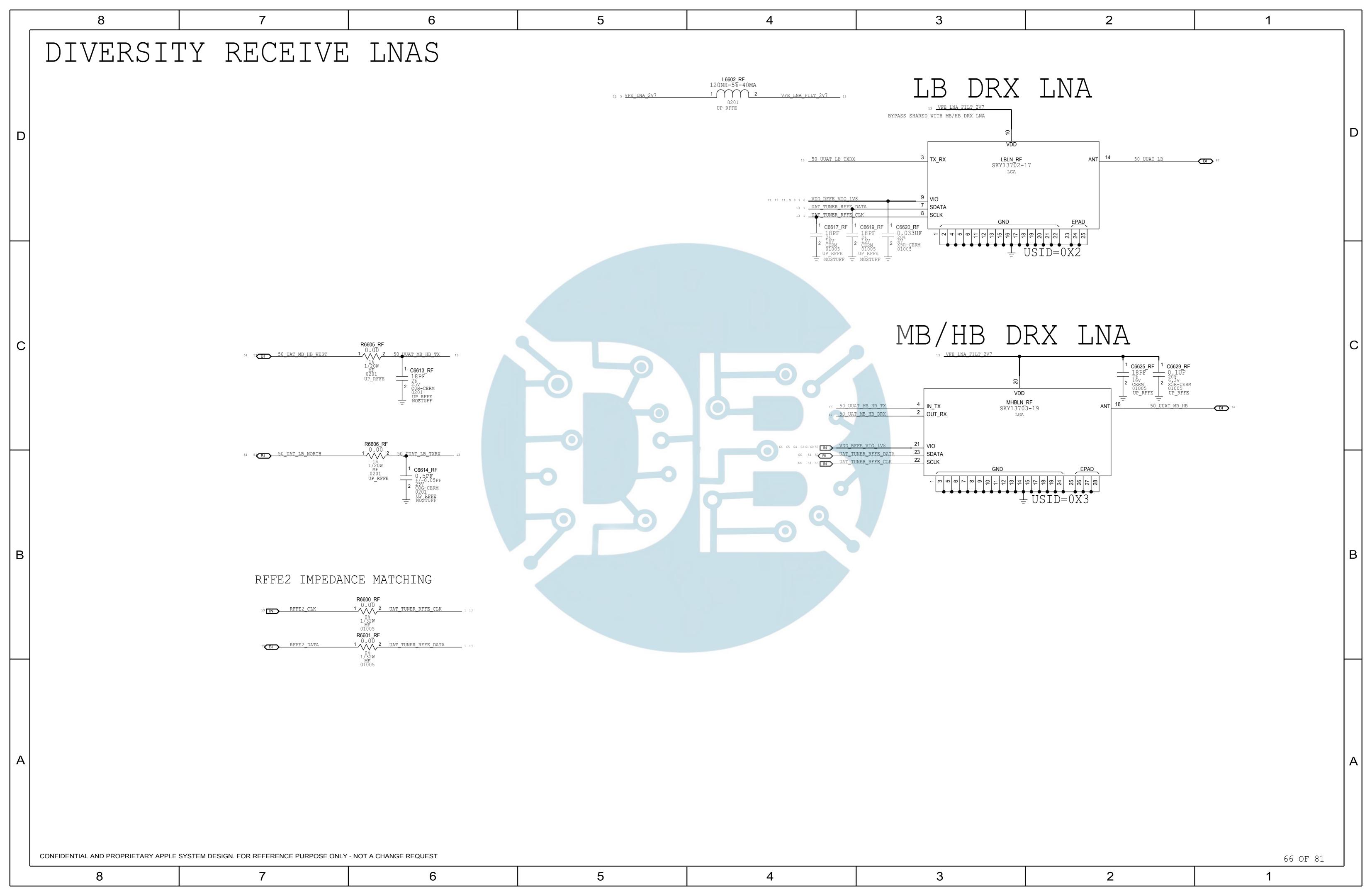


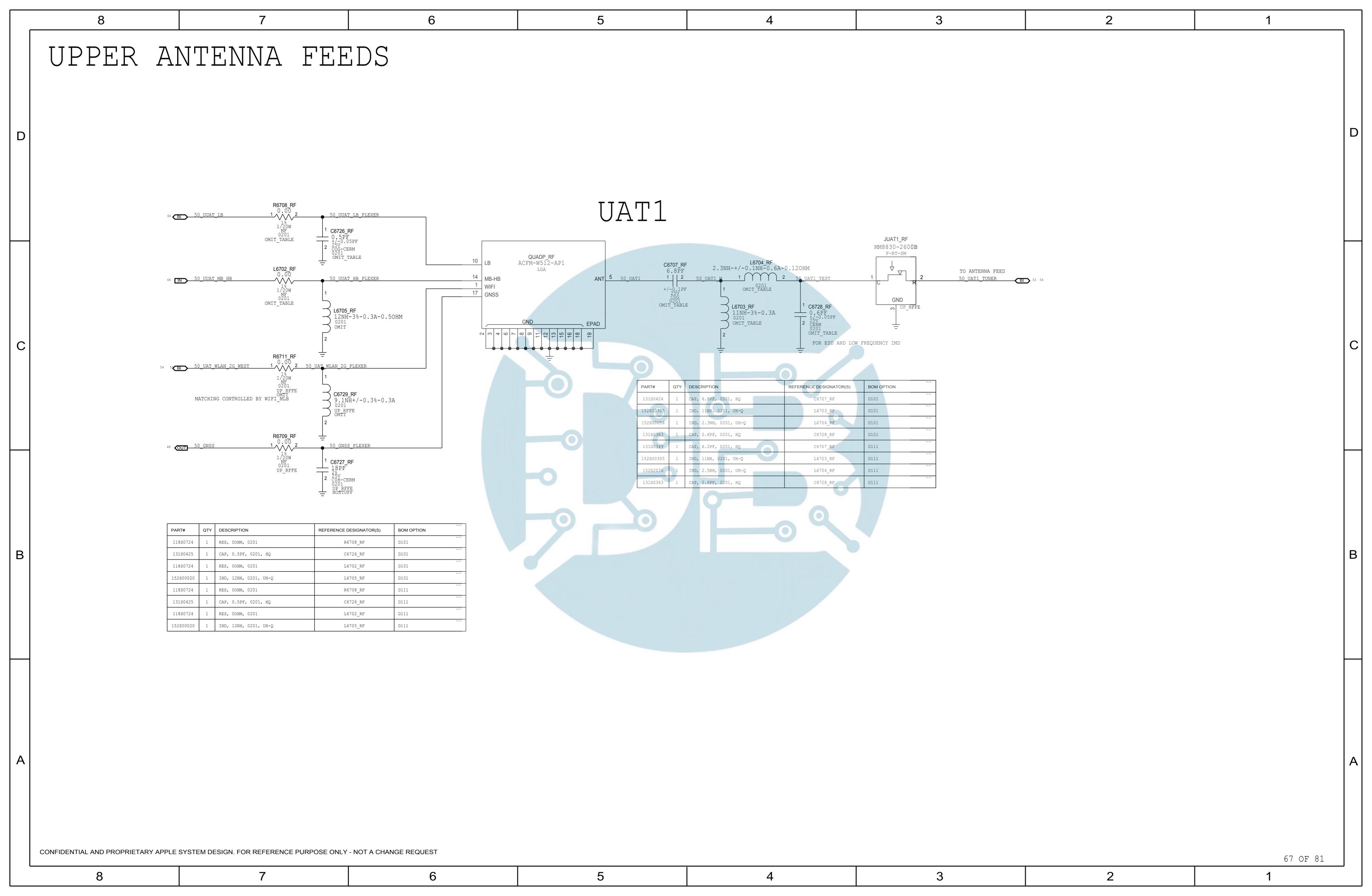


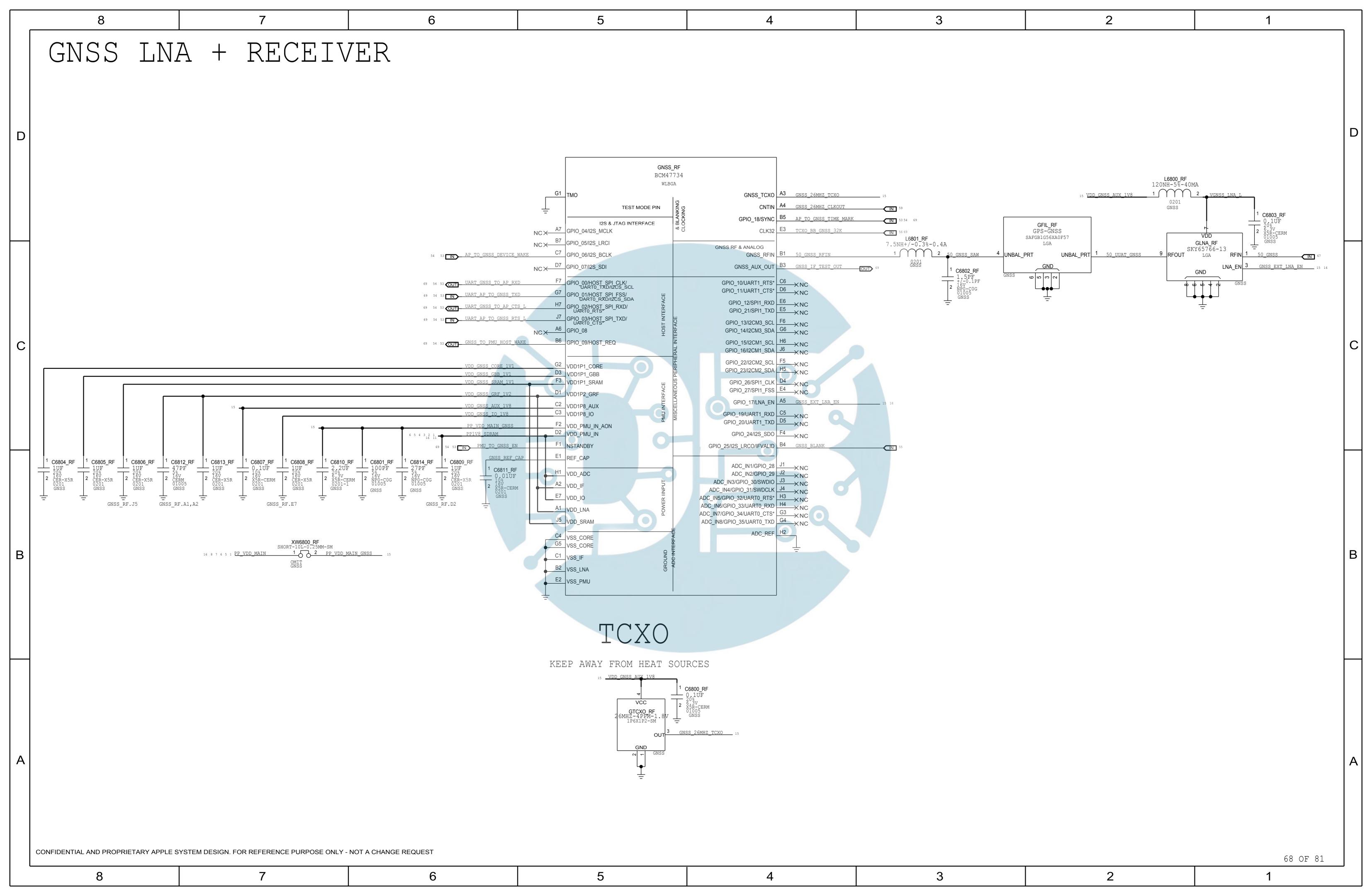


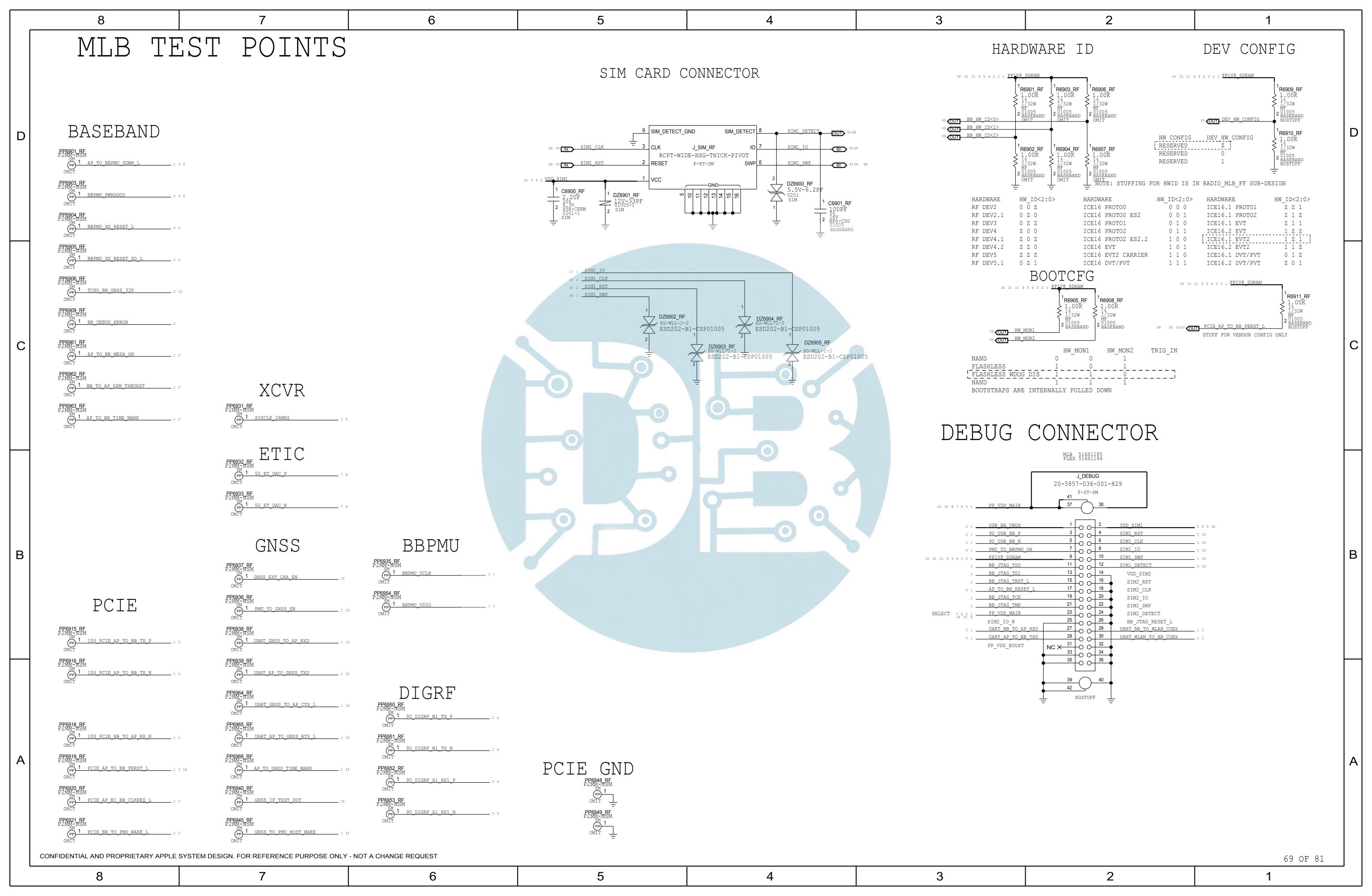


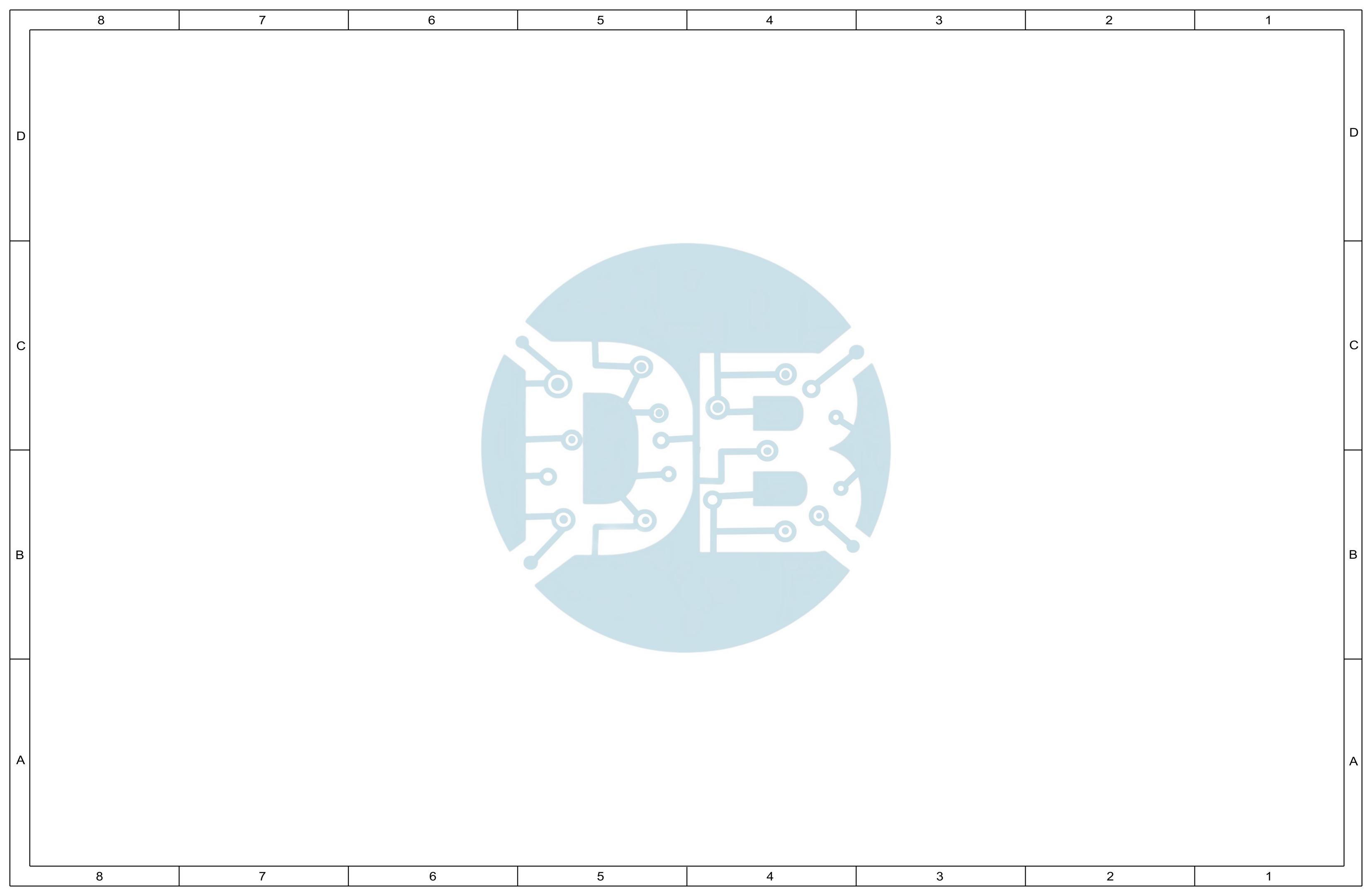


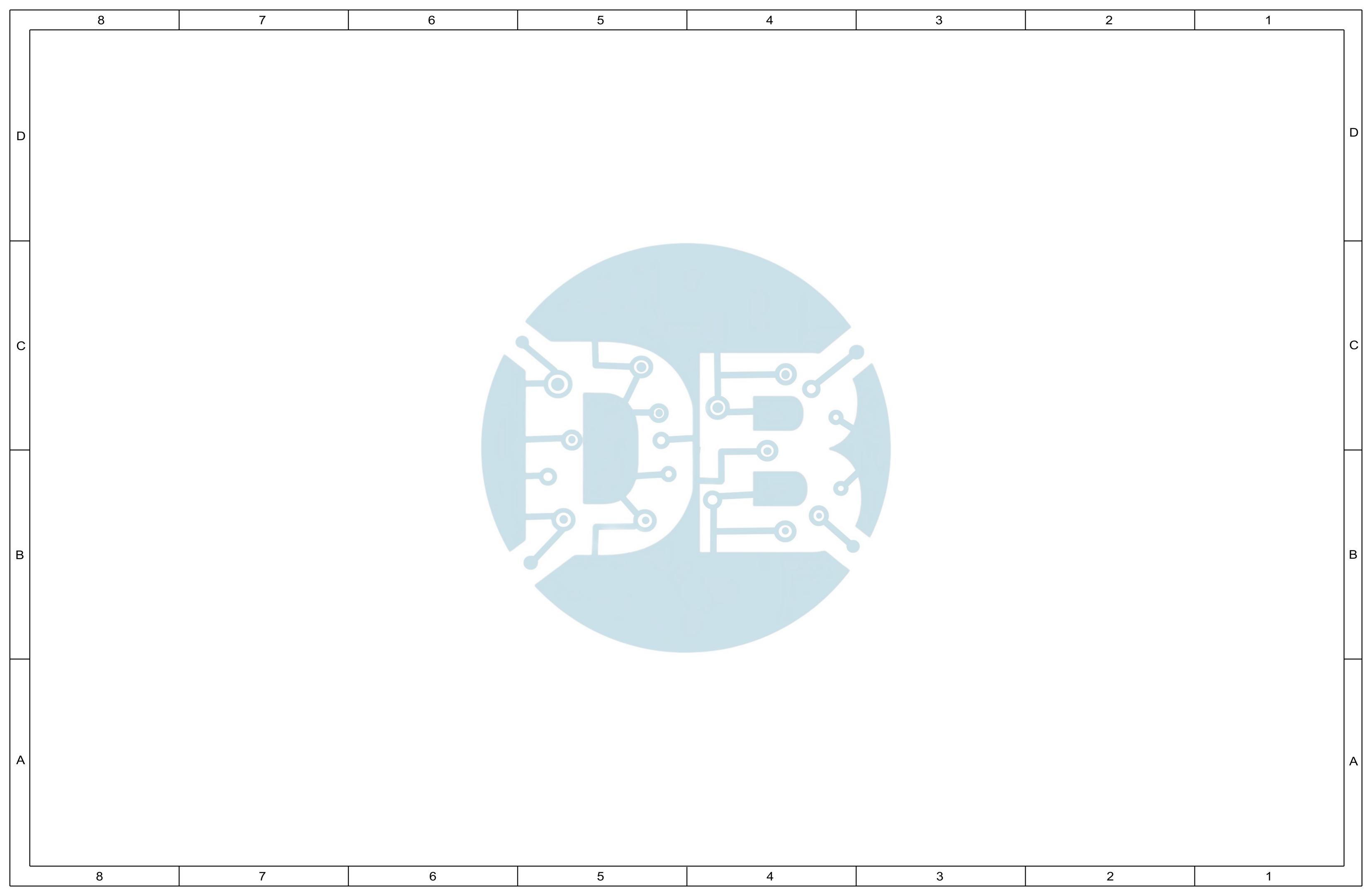


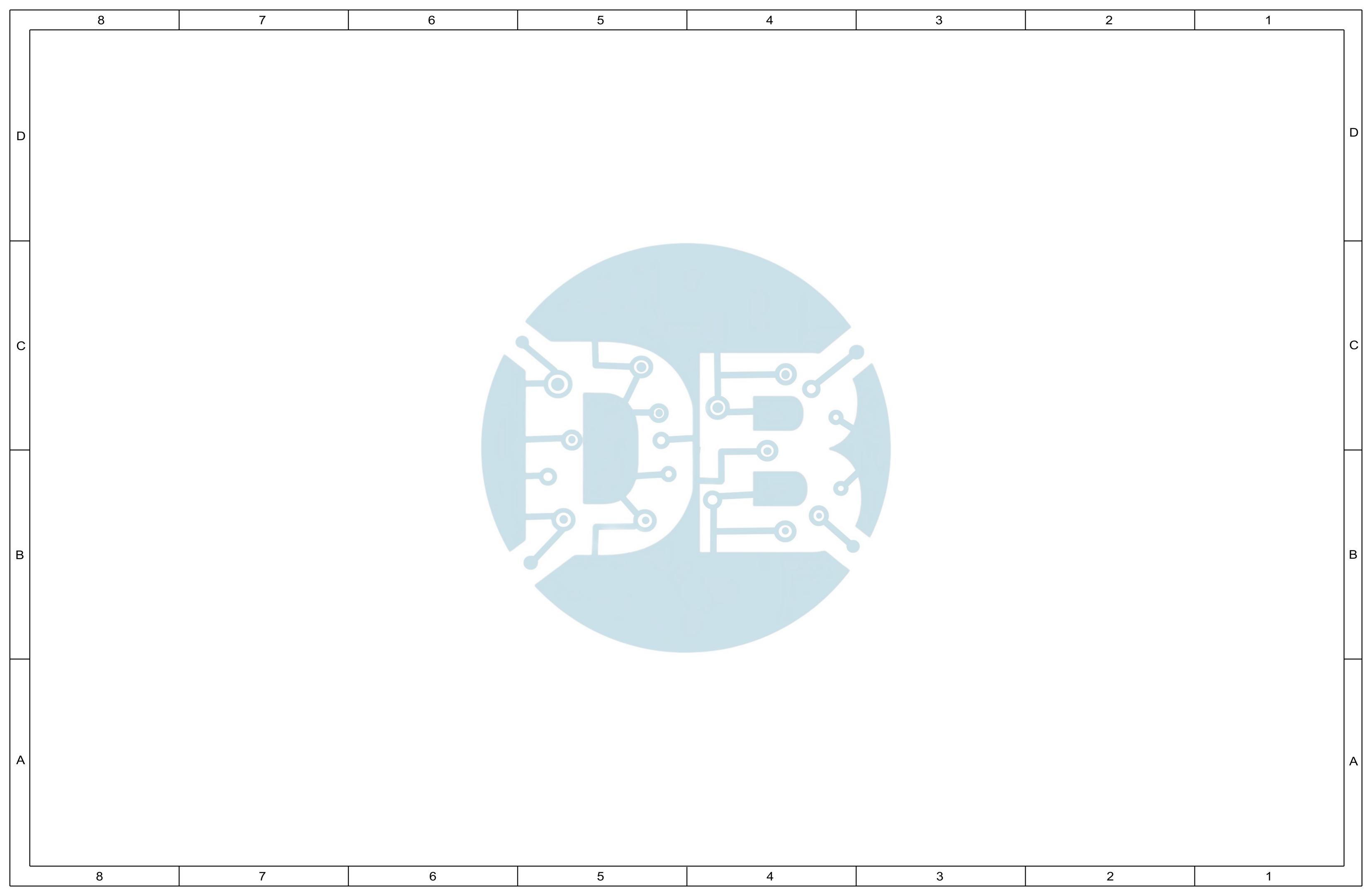


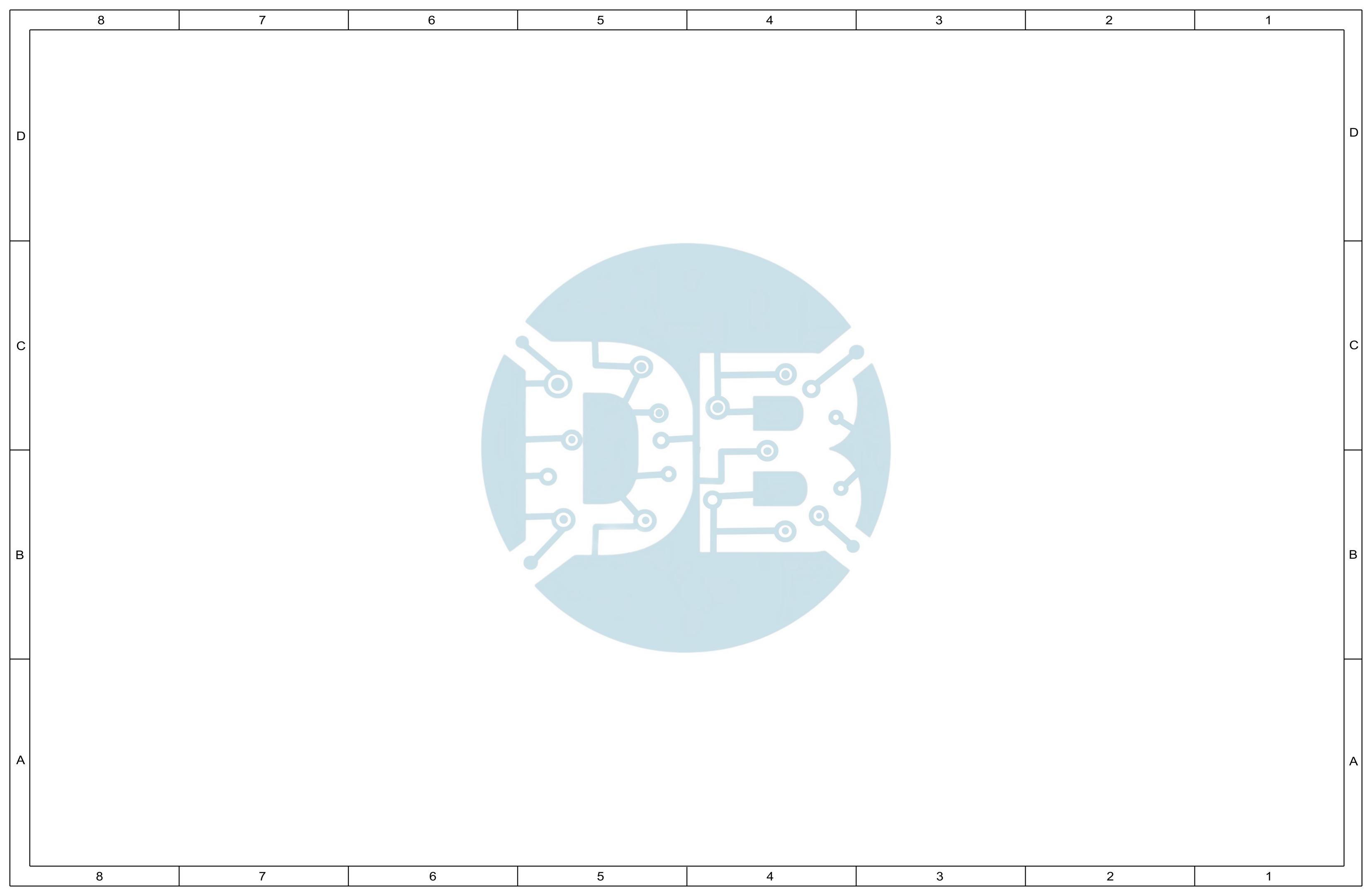


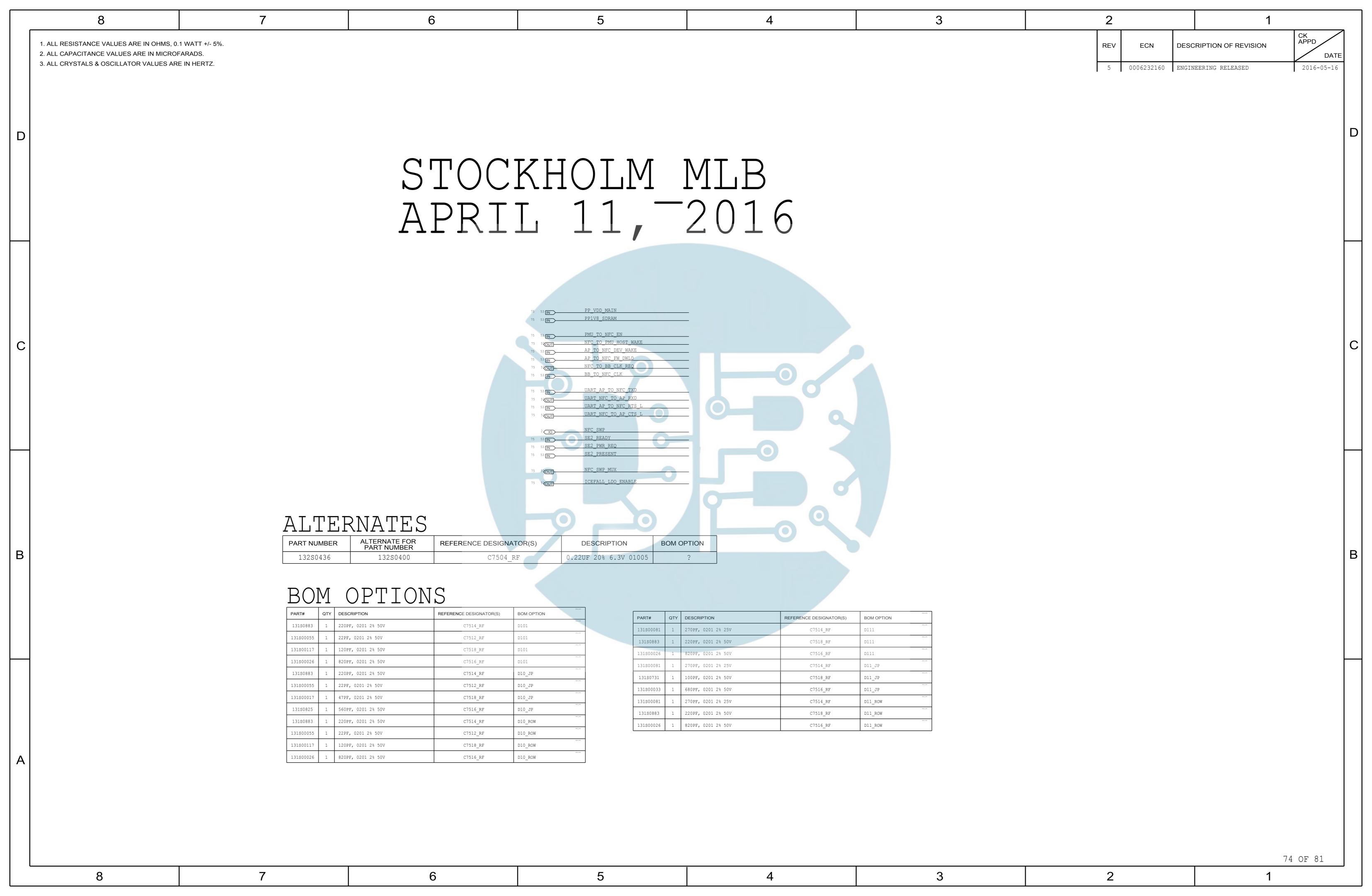


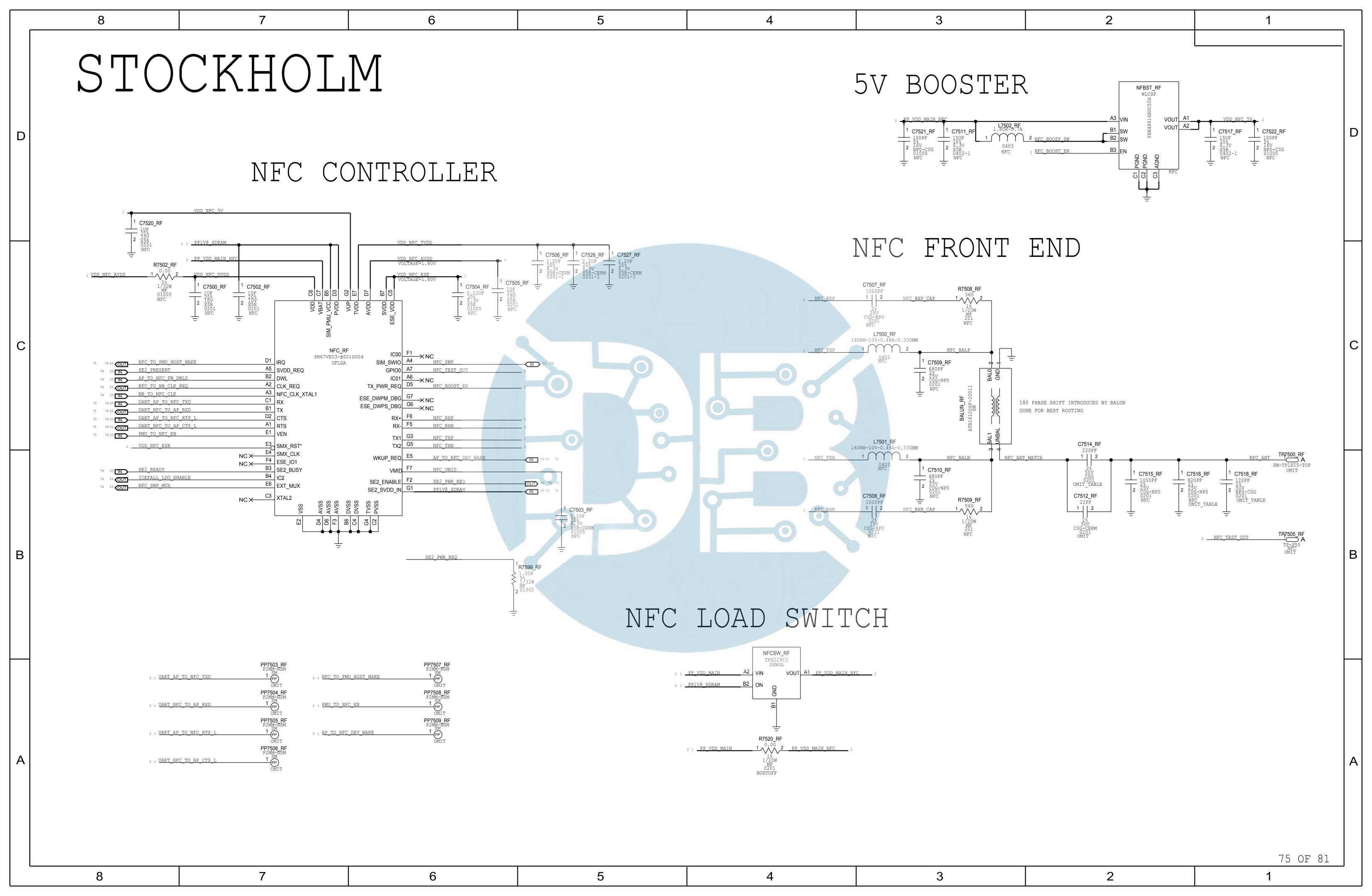




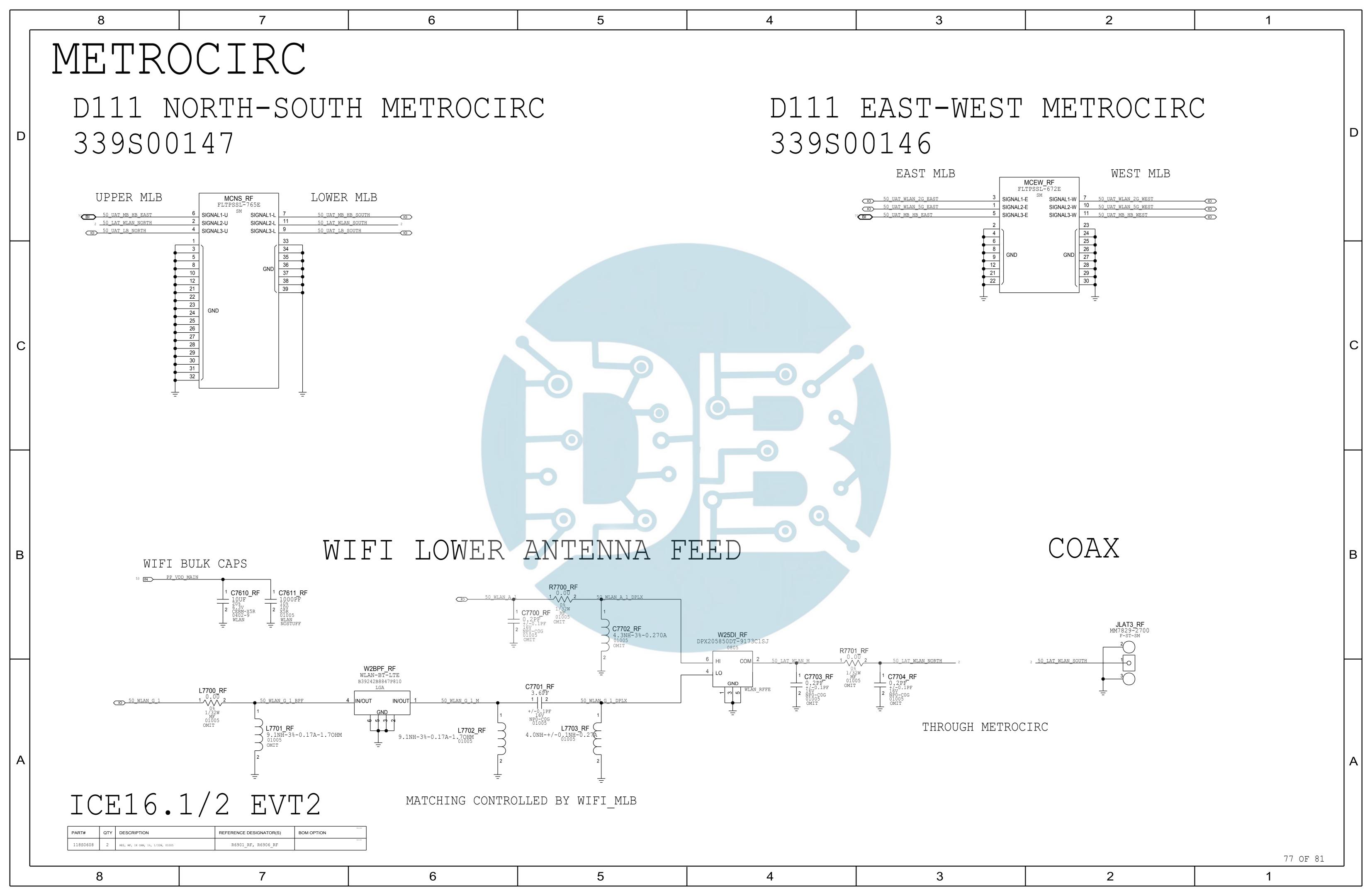


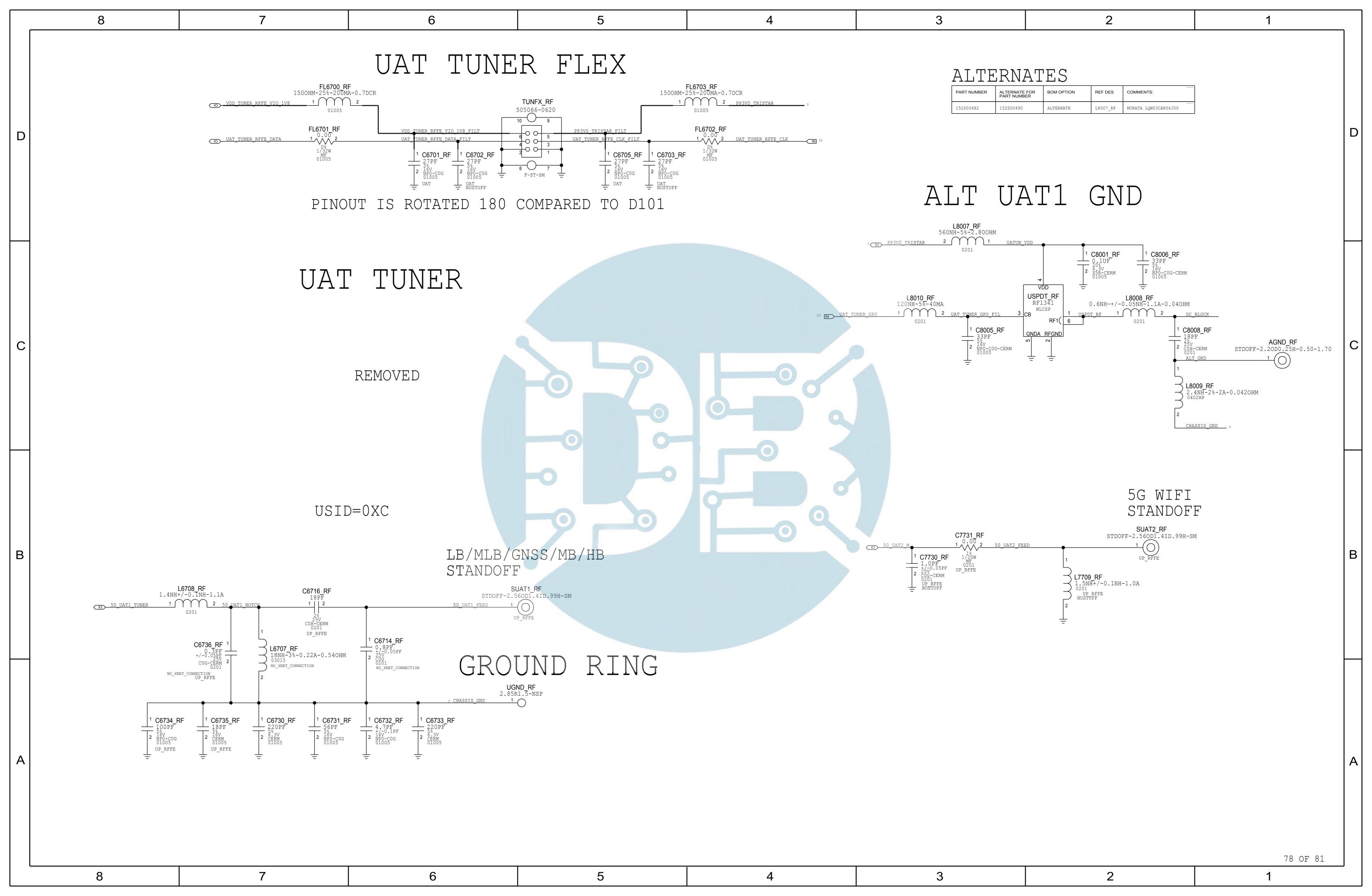






1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. REV DESCRIPTION OF REVISION 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ. 0006232160 ENGINEERING RELEASED D111 RADIO MLB FF Mon May 16 17:43:10 2016 PDF PAGE CONTENTS METROCIRC SCH: 951-02180 BOM: 939-01837 PCB: 920-XXXXX 76 OF 81 CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSE ONLY - NOT A CHANGE REQUEST





6 CK APPD 1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. REV **DESCRIPTION OF REVISION** ECN 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. DATI 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ. 0006232160 ENGINEERING RELEASED 2016-05-16 D1X WIFI MLB (PERENNIAL) FEBRUARY 1, 2016 CSA PAGE CONTENTS PDF PAGE PERENNIAL 76 WIFI FRONT-END BOM OPTIONS: D10 JP: D11 JP. POWER QTY DESCRIPTION CRITICAL PART# REFERENCE DESIGNATOR(S) BOM OPTION PART# TROTEY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION CAP, CER, 0.3PF, +/-0.05, 01005 CRITICAL D10 JP 152S00273 TRUE IND, 0.6NH, UH-Q, 01005 CRITICAL 131S0648 C7705 RF R7703 RF D11 JP 80 53 IN PP1V8 SDRAM R7703 RF CRITICAL D10_JP IND, 0.7NH, UH-Q, 01005 R7711 RF CRITICAL D11_JP 152S00029 IND, 1.1NH, UH-Q, 01005 152S1976 TR 131S0893 CAP, CER, 0.2PF, +/-0.05, 01005 CRITICAL D10 JP 131S0400 TRUE CAP, CER, 3.5PF+/-0.1, 01005 R7702 RF CRITICAL D11 JP C7706 RF 80 53 IN PMU_TO_WLAN_32K 152S1986 TRUE IND, FILM, 2.2NH, UH-Q, 01005 D10_JP D11_JP 117S0161 RES,MF,0 OHM,1/32W,01005 R7711_RF CRITICAL R7704 RF CRITICAL CONTROL RES, MF, 0 OHM, 1/32W, 01005 CRITICAL D10 JP 131S0648 TRU CAP, CER, 0.3PF, +/-0.05PF, 01005 CRITICAL D11 JP 117S0161 R7702 RF C7708_RF 80 53 IN PMU_TO_WLAN_REG_ON 131S0593 TRUE CAP, 3.9PF, +/-1.0PF, 0201, HI-0 R6711 RF CRITICAL D10 JP CRITICAL D11 JP 152S1980 IND, 1.0NH, UH-Q, 01005 R7704 RF 80 53 IN PMU_TO_BT_REG_ON D10_JP IND, 7.5NH, UH-Q, 0201 C6729_RF 131S0404 CAP, 3.9PF, +/-1.0PF, 01005 R6711_RF CRITICAL 80 5 BT_TO_PMU_HOST_WAKE 80 53 IN AP TO BT WAKE RES,MF,0 OHM,1/32W,01005 152S2061 IND,7.5NH,UH-Q,01005 C6729 RF CRITICAL D10 JP D11 JP D10_JP 117S0161 TRUE RES,MF,0 OHM,1/32W,01005 117S0161 RES,MF,0 OHM,1/32W,01005 R7700_RF CRITICAL L7700 RF WLAN PCIE IND, 6.2NH, UH-Q, 01005 IND, 9.1NH, UH-Q, 01005 CRITICAL D10 JP L7701 RF D11 JP 152S2043 C7702 RF 152S1853 TRUE 80 53 IN 100_PCIE_AP_TO_WLAN_REFCLK_P CRITICAL D10 JP 117S0161 TRUE RES,MF,0 OHM,1/32W,01005 CRITICAL D11_JP 152S1998 IND, 0.8NH, UH-Q, 01005 L7700_RF R7701 RF C7705_RF D11_JP 152S2043 IND, 6.2NH, UH-Q, 01005 L7701_RF CRITICAL D10_JP 131S0893 TF CAP, CER, 0.2PF, +/-0.05PF, 01005 CAP, CER, 0.2PF, +/-0.05PF, 01005 C7729 RF D11_JP 117S0161 RES,MF,0 OHM,1/32W,01005 R7701 RF CRITICAL D10 JP CRITICAL NOSTUFF: C7729_RF, C7711_RF, C7709_RF, C7710_RF, C7707_RF, C7708_RF NOSTUFF: C7706_RF, C7711_RF, C7709_RF, C7710_RF, C7707_RF C7700 RF, C7703 RF, C7704 RF C7700 RF, C7702 RF, C7703 RF, C7704 RF 2 O PCIE_AP_BI_WLAN_CLKREQ_L D10 ROW: 80 5 OUT PCIE_WLAN_TO_PMU_WAKE 80 53 IN AP TO WLAN DEV WAKE PART# QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION D11 ROW: CAP, CER, 0.3PF, +/-0.05, 01005 D10_ROW 131S0648 C7705_RF CRITICAL WLAN UART REFERENCE DESIGNATOR(S) CRITICAL QTY DESCRIPTION BOM OPTION IND, 1.1NH, UH-Q, 01005 CRITICAL D10 ROW 152S00029 R7703 RF 80 5 OUT UART_WLAN_TO_AP_RXD D11_ROW 80 53 IN UART_AP_TO_WLAN_TXD 131S0893 CAP, CER, 0.2PF, +/-0.05, 01005 CRITICAL D10 ROW C7706 RF 80 5 OUT UART_WLAN_TO_AP_CTS_L CRITICAL 152S1976 IND, 0.7NH, UH-Q, 01005 R7711_RF D11_ROW 117S0161 RES,MF,0 OHM,1/32W,01005 R7711_RF CRITICAL D10_ROW 80 53 IN UART_AP_TO_WLAN_RTS_L CAP, CER, 3.5PF+/-0.1, 01005 R7702 RF CRITICAL 13180400 D11 ROW RES, MF, 0 OHM, 1/32W, 01005 117S0161 R7702_RF CRITICAL D10 ROW BLUETOOTH UART IND, FILM, 2.2NH, UH-Q, 0100 D11 ROW R7704_RF 152S1988 IND, 2.4NH, UH-Q, 01005 R7704_RF CRITICAL D10_ROW 80 53 IN UART_AP_TO_BT_TXD RES, MF, 0 OHM, 1/20W, 020 CRITICAL 118S0724 R6711_RF D11 ROW 117S0161 RES,MF,0 OHM,1/32W,01005 CRITICAL D10 ROW R6711_RF 80 53OUT UART_BT_TO_AP_RXD IND, 9.1NH, UH-Q, 0201 152S2054 C6729 RF CRITICAL D11 ROW 80 53 N UART_AP_TO_BT_RTS_L 152S1853 IND, 9.1NH, UH-Q, 01005 C6729_RF CRITICAL D10 ROW 80 5 OUT UART BT TO AP CTS L RES,MF,0 OHM,1/32W,01005 R7700_RF CRITICAL D11_ROW 117S0161 RES,MF,0 OHM,1/32W,01005 R7700_RF CRITICAL D10_ROW 117S0161 RES,MF,0 OHM,1/32W,01005 L7700_RF CRITICAL D11 ROW AOP 117S0161 152S2043 IND, 6.2NH, UH-Q, 01005 C7702_RF CRITICAL D10 ROW IND, 9.1NH, UH-Q, 01005 L7701_RF CRITICAL 80 53 IN AOP_TO_WLAN_CONTEXT_A 152S1853 D11_ROW 152S1998 IND, 0.8NH, UH-Q, 01005 L7700_RF CRITICAL D10 ROW 80 53 IN AOP TO WLAN CONTEXT B 117S0161 RES,MF,0 OHM,1/32W,01005 R7701_RF CRITICAL D11_ROW 152S2043 IND, 6.2NH, UH-Q, 01005 L7701_RF CRITICAL D10_ROW AUDIO CAP, CER, 0.2PF, +/-0.05PF, 01005 C7705_RF 131S0893 CRITICAL D11_ROW RES,MF,0 OHM,1/32W,01005 R7701 RF CRITICAL D10 ROW 117S0161 80 53 IN I2S_AP_TO_BT_BCLK CAP, CER, 0.2PF, +/-0.05PF, 01005 131S0893 C7729_RF CRITICAL D11_ROW NOSTUFF: C7729 RF, C7711 RF, C7709 RF, C7710 RF, C7707 RF, C7708 RF 80 53 IN I2S_AP_TO_BT_LRCK C7700_RF, C7703_RF, C7704_RF NOSTUFF: C7706_RF, C7711_RF, C7709_RF, C7710_RF, C7707_RF, C7708_RF 80 5 OUT I2S BT TO AP DIN C7700_RF,C7702_RF, C7703_RF,C7704_RF 80 53 IN I2S AP TO BT DOUT D101 WIFI: COEX D111 WIFI: 80 53 IN UART_BB_TO_WLAN_COEX QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION PART# 80 5 OUT UART_WLAN_TO_BB_COEX CAP, CER, 0.3PF, +/-0.05, 01005 QTY DESCRIPTION CRITICAL 131S0648 C7705_RF CRITICAL D101 REFERENCE DESIGNATOR(S) BOM OPTION ANTENNA D101 IND, 1.1NH, UH-Q, 01005 R7703_RF CRITICAL IND, 0.6NH, UH-Q, 01005 R7703 RF CRITICAL D111 52S00029 152S00273 3 TO 50 UAT WLAN 5G WEST 131S0893 CAP, CER, 0.2PF, +/-0.05, 01005 C7706_RF CRITICAL D101 152S1976 IND, 0.7NH, UH-Q, 01005 R7711_RF CRITICAL D111 3 SO UAT WLAN 2G EAST RES,MF,0 OHM,1/32W,01005 CRITICAL D101 CAP, CER, 3.5PF+/-0.1, 01005 D111 117S0161 R7711_RF 131S0400 R7702 RF CRITICAL 2 TO 50 WLAN G 1 RES,MF,0 OHM,1/32W,01005 R7702_RF CRITICAL 152S1986 IND, FILM, 2.2NH, UH-Q, 01005 R7704_RF CRITICAL 117S0161 2 10 50 WLAN A 1 3 10 50 UAT2 M 152S1988 IND, 2.4NH, UH-Q, 01005 R7704_RF CRITICAL D101 118S0724 RES,MF, 0 OHM,1/20W, 0201 R6711_RF CRITICAL D111 131S0648 CAP, CER, 0.3PF, +/-0.05PF, 01005 C7708_RF CRITICAL D101 152S2054 IND, 9.1NH, UH-Q, 0201 C6729_RF CRITICAL D111 RES,MF, 0 OHM,1/20W, 0201 R6711_RF CRITICAL D101 117S0161 RES,MF,0 OHM,1/32W,01005 R7700_RF CRITICAL D111 118S0724 IND, 9.1NH, UH-Q, 0201 CRITICAL D101 RES,MF,0 OHM,1/32W,01005 CRITICAL D111 152S2054 C6729 RF 117S0161 L7700 RF RES,MF,0 OHM,1/32W,01005 R7700_RF CRITICAL D101 152S1853 IND, 9.1NH, UH-Q, 01005 L7701_RF CRITICAL 117S0161 152S2043 IND, 6.2NH, UH-Q, 01005 C7702_RF CRITICAL D101 117S0161 RES,MF,0 OHM,1/32W,01005 R7701_RF CRITICAL D111 CAP, CER, 0.2PF, +/-0.05PF, 01005 152S1998 IND, 0.8NH, UH-Q, 01005 L7700_RF CRITICAL D101 131S0893 C7705_RF CRITICAL D111 D111 IND, 6.2NH, UH-Q, 01005 L7701_RF CRITICAL D101 131S0893 CAP, CER, 0.2PF, +/-0.05PF, 01005 C7729_RF CRITICAL 152S2043 NOSTUFF: C7706 RF, C7711 RF, C7709 RF, C7710 RF, C7707 RF, C7708 RF RES,MF,0 OHM,1/32W,01005 R7701 RF CRITICAL D101 117S0161 C7700 RF, C7702 RF, C7703 RF, C7704 RF NOSTUFF: C7729_RF,C7711_RF,C7709_RF,C7710 RF, C7707 RF CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSE ONLY - NOT A CHANGE REQUEST 79 OF 81 C7700 RF, C7703 RF, C7704 RF 8 6 2

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