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1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.												REV	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD DATE	ENG APPD DATE																						
												27		472272	ENGINEERING RELEASED	11/07/06	?																						
IP0D M68 RADIO DVT - 11/06/06																																							
PAGE		CONTENTS																																					
02		BASEBAND																																					
03		BASEBAND + MEMORY																																					
04		BASEBAND PMU																																					
05		GSM RF																																					
06		SYSTEM CONNECTORS																																					
07		BLUETOOTH																																					
08		WLAN RADIO																																					
09		FUNCTIONAL TEST POINTS																																					
BOARD - 820-2021 SCHEMATIC - 051-7111 BOM - 630-7588																																							
<table><tr><td>PART#</td><td>QTY</td><td>DESCRIPTION</td><td>REFERENCE DESIGNATOR(S)</td><td>CRITICAL</td><td>BOM OPTION</td></tr><tr><td>051-7111</td><td>1</td><td>M68_RADIO_SCHEMATIC</td><td>SCH</td><td>Y</td><td></td></tr><tr><td>820-2021</td><td>1</td><td>M68_RADIO_PCB</td><td>PCB</td><td>Y</td><td></td></tr><tr><td>825-2029</td><td>1</td><td>EEE</td><td>EEE:VKT</td><td>Y</td><td></td></tr></table>																PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION	051-7111	1	M68_RADIO_SCHEMATIC	SCH	Y		820-2021	1	M68_RADIO_PCB	PCB	Y		825-2029	1	EEE	EEE:VKT	Y	
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION																																		
051-7111	1	M68_RADIO_SCHEMATIC	SCH	Y																																			
820-2021	1	M68_RADIO_PCB	PCB	Y																																			
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DIMENSIONS ARE IN MILLIMETERS

XX ± _____

X.XX ± _____

X.XXX ± _____

ANGLES ± _____

DO NOT SCALE DRAWING



THIRD ANGLE PROJECTION

METRIC

DRAFTER	/	DESIGN CK	/
ENG APPD	/	MFG APPD	/
QA APPD	/	DESIGNER	/
RELEASE	/	SCALE	NONE
MATERIAL/FINISH NOTED AS APPLICABLE		SIZE	D

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TITLE
M68

DRAWING NUMBER
051-7111

REV. **27**

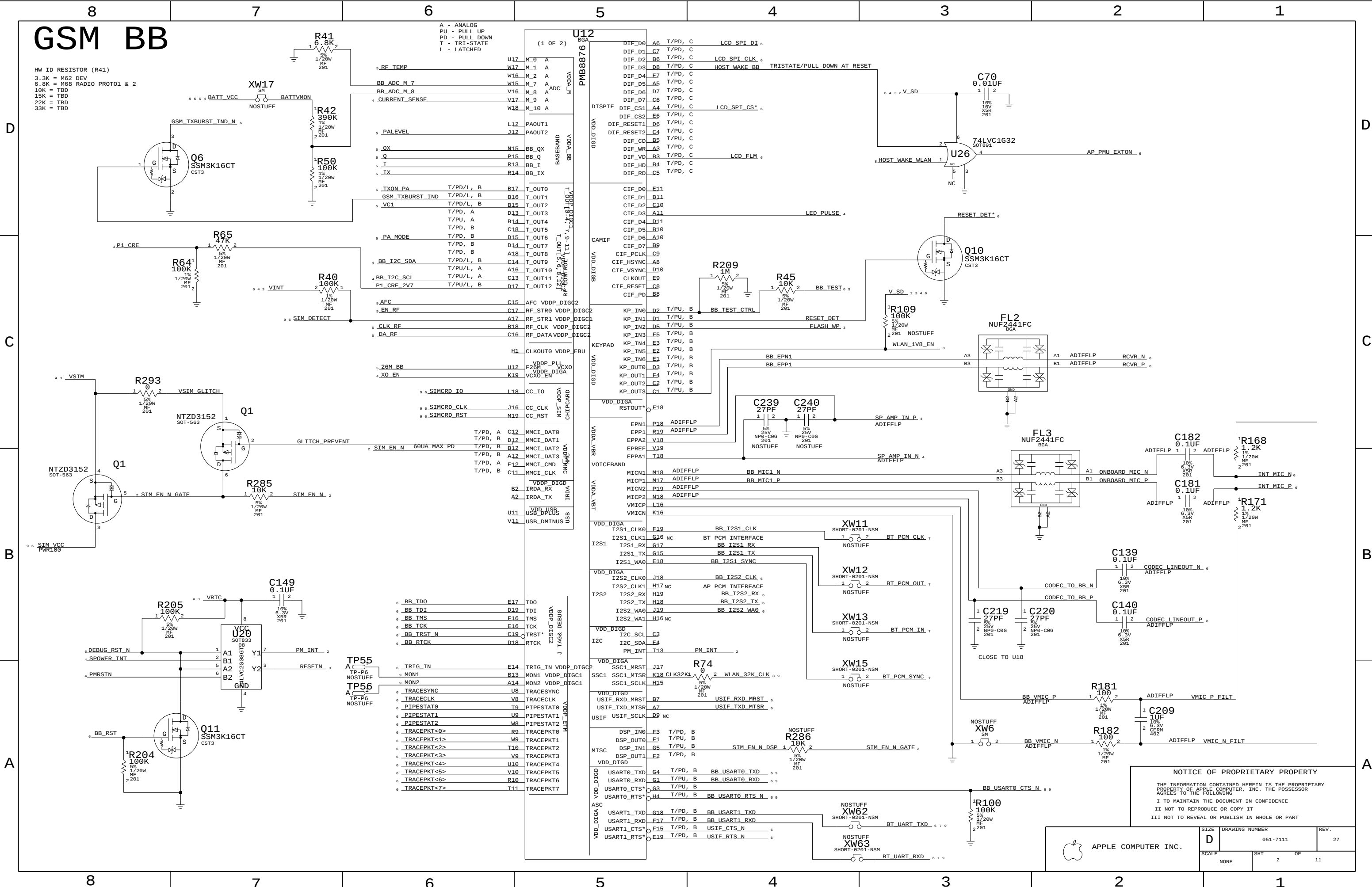
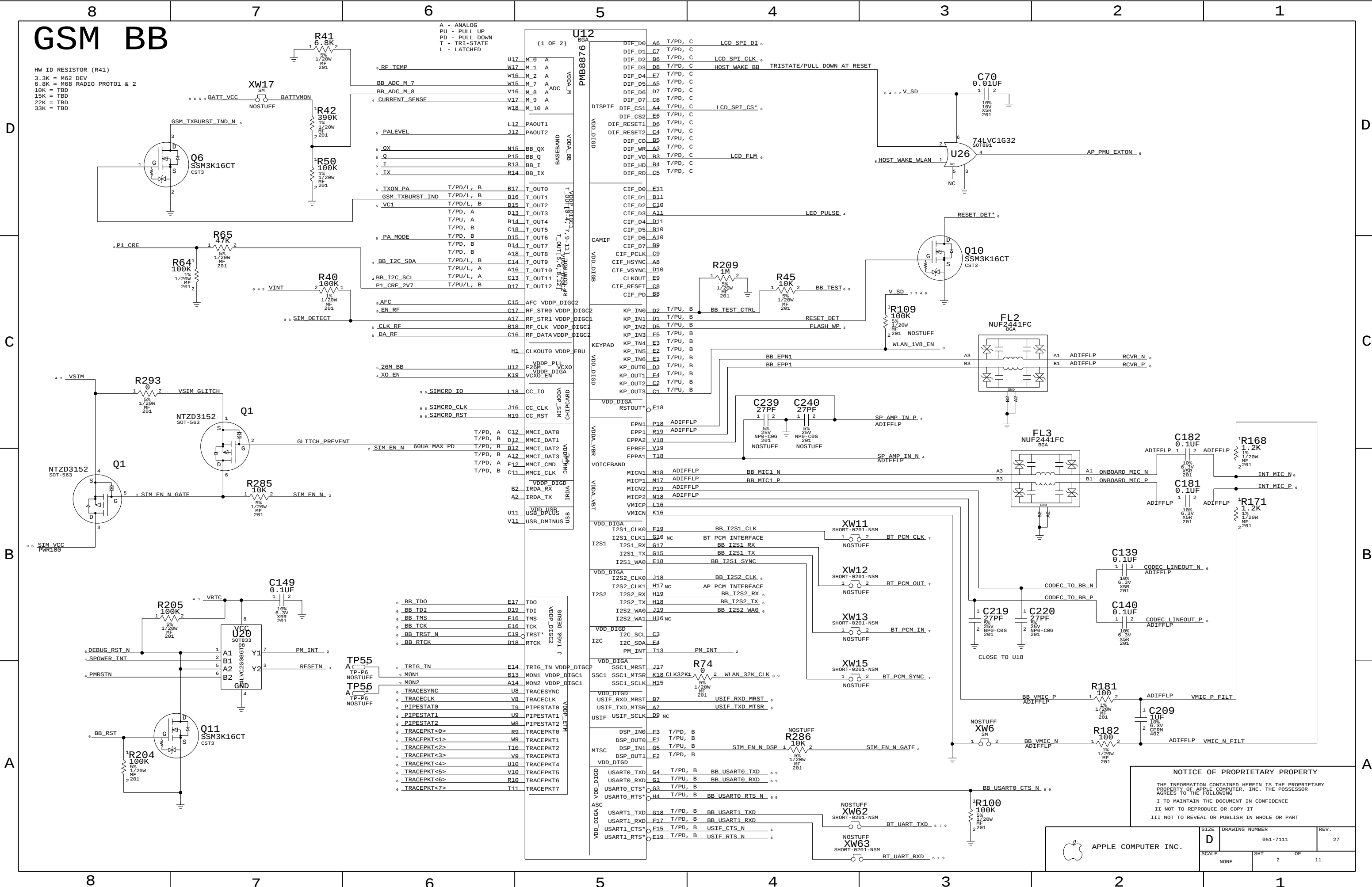
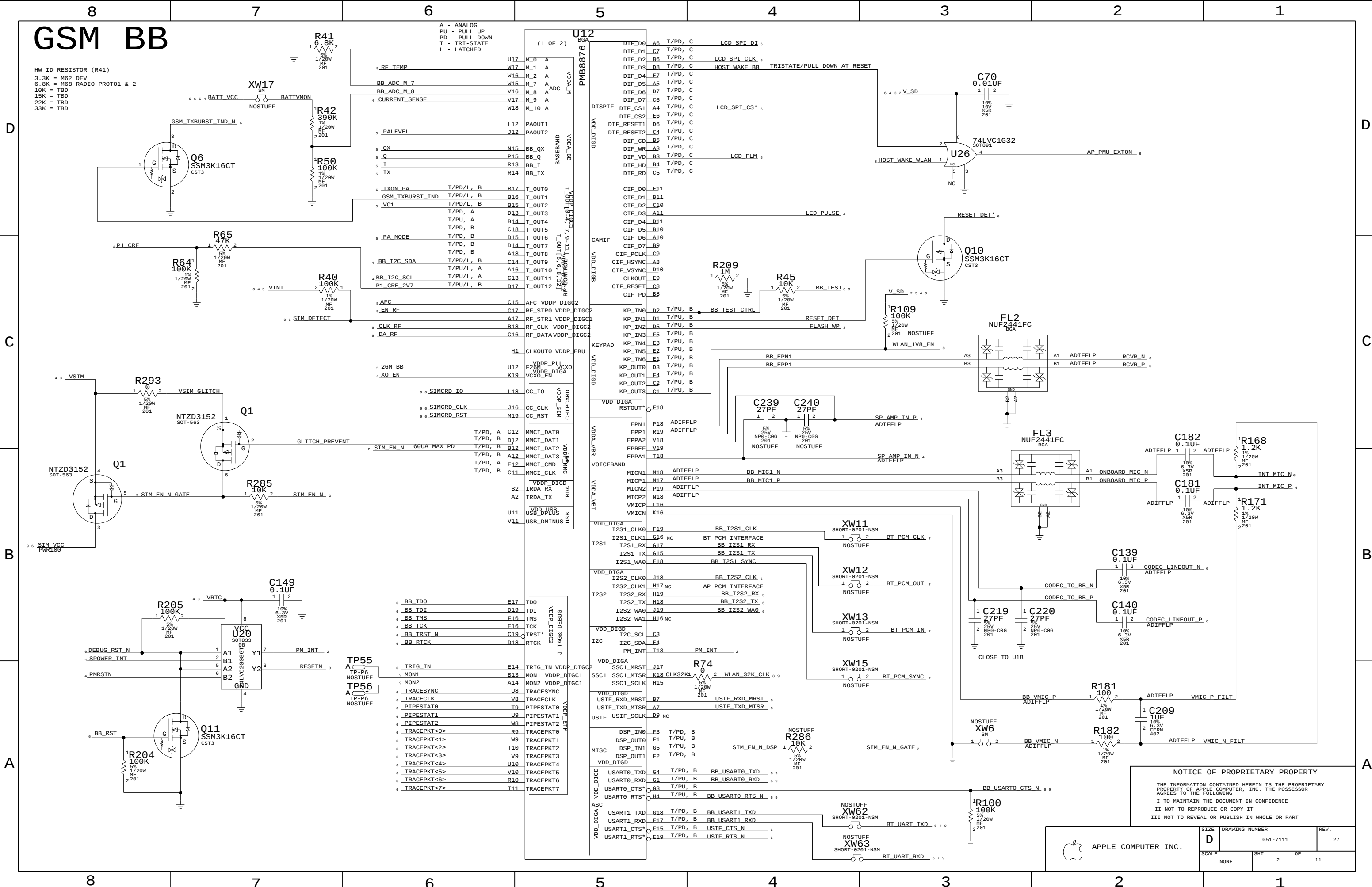
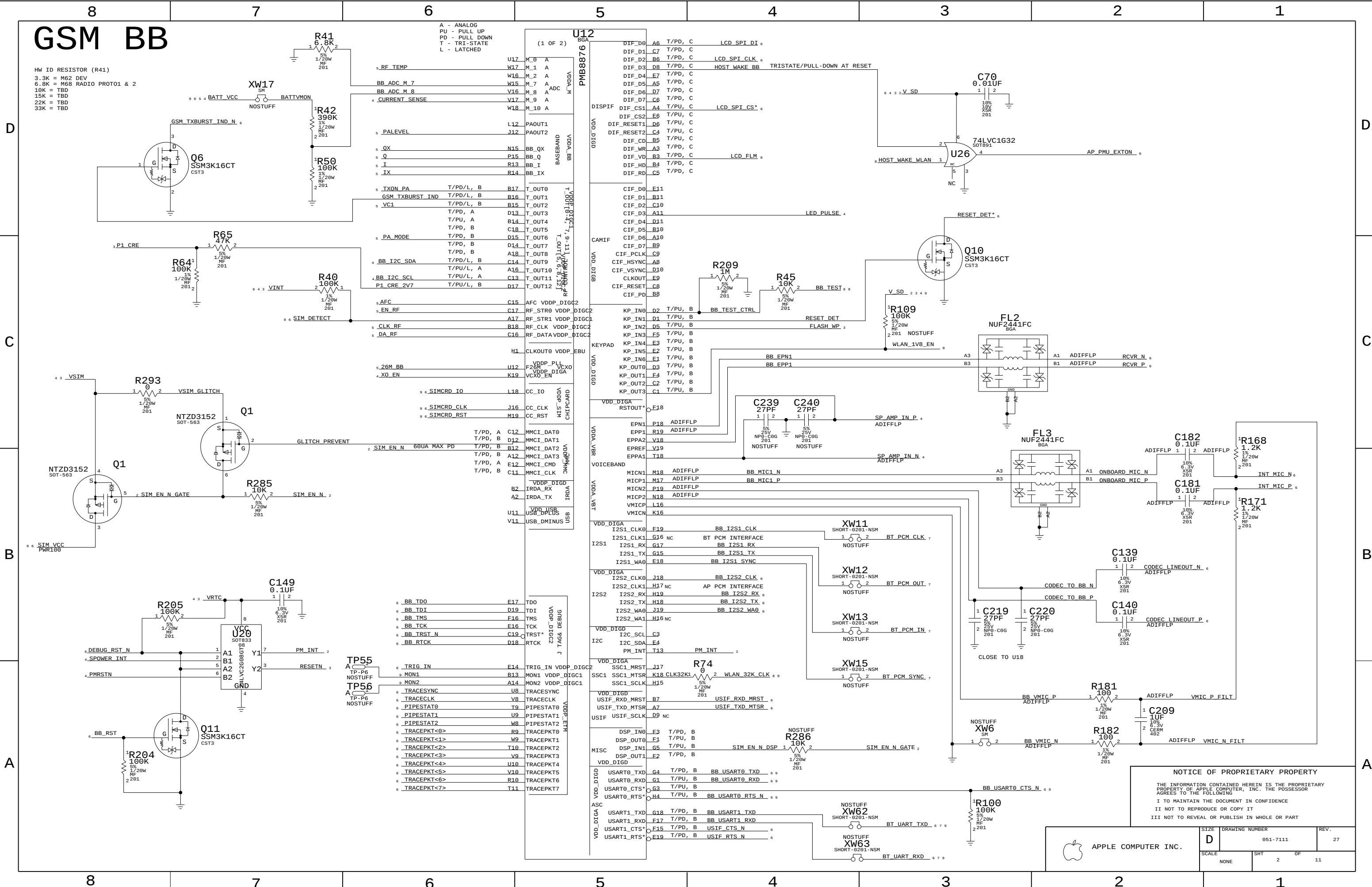
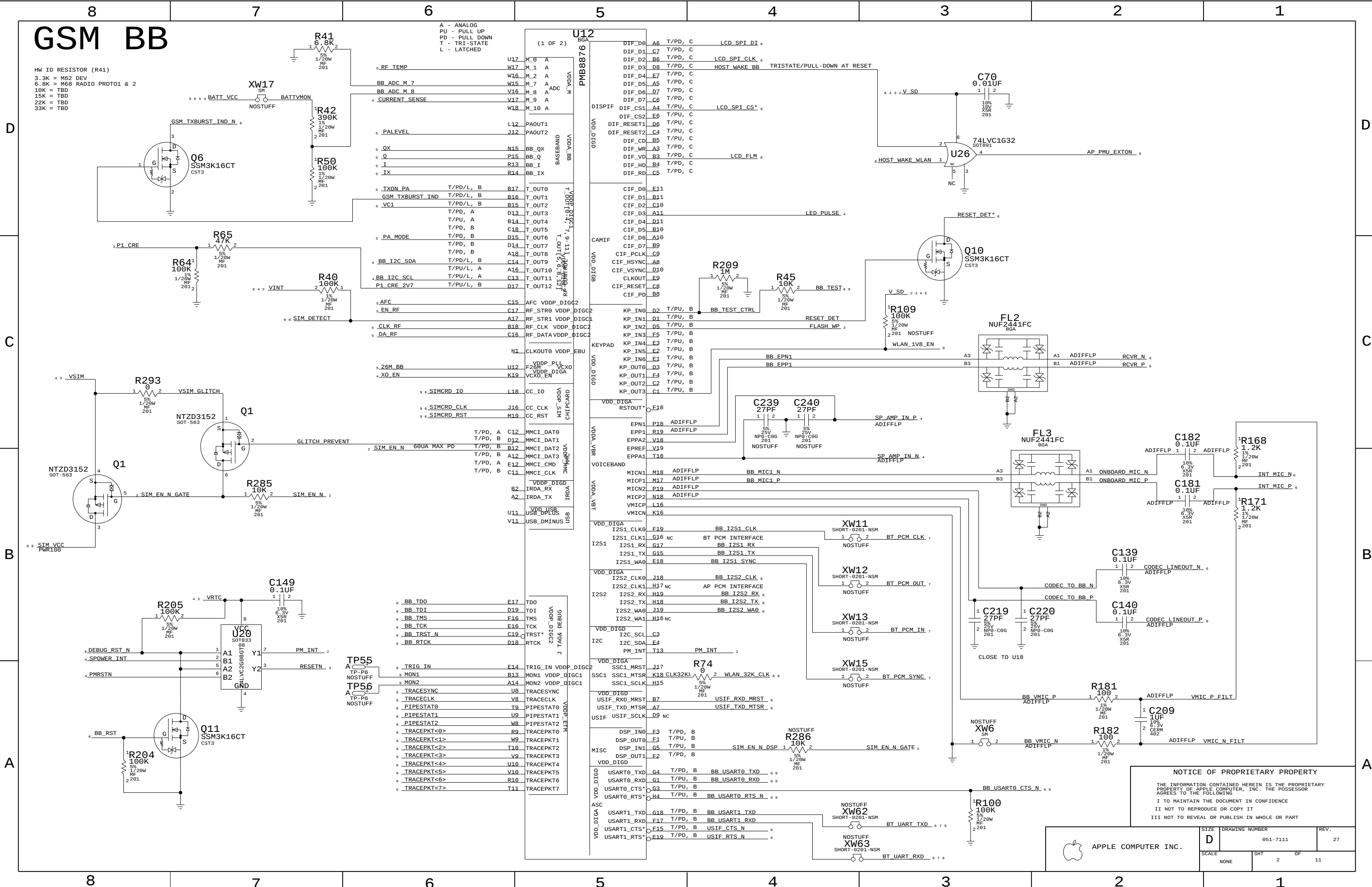
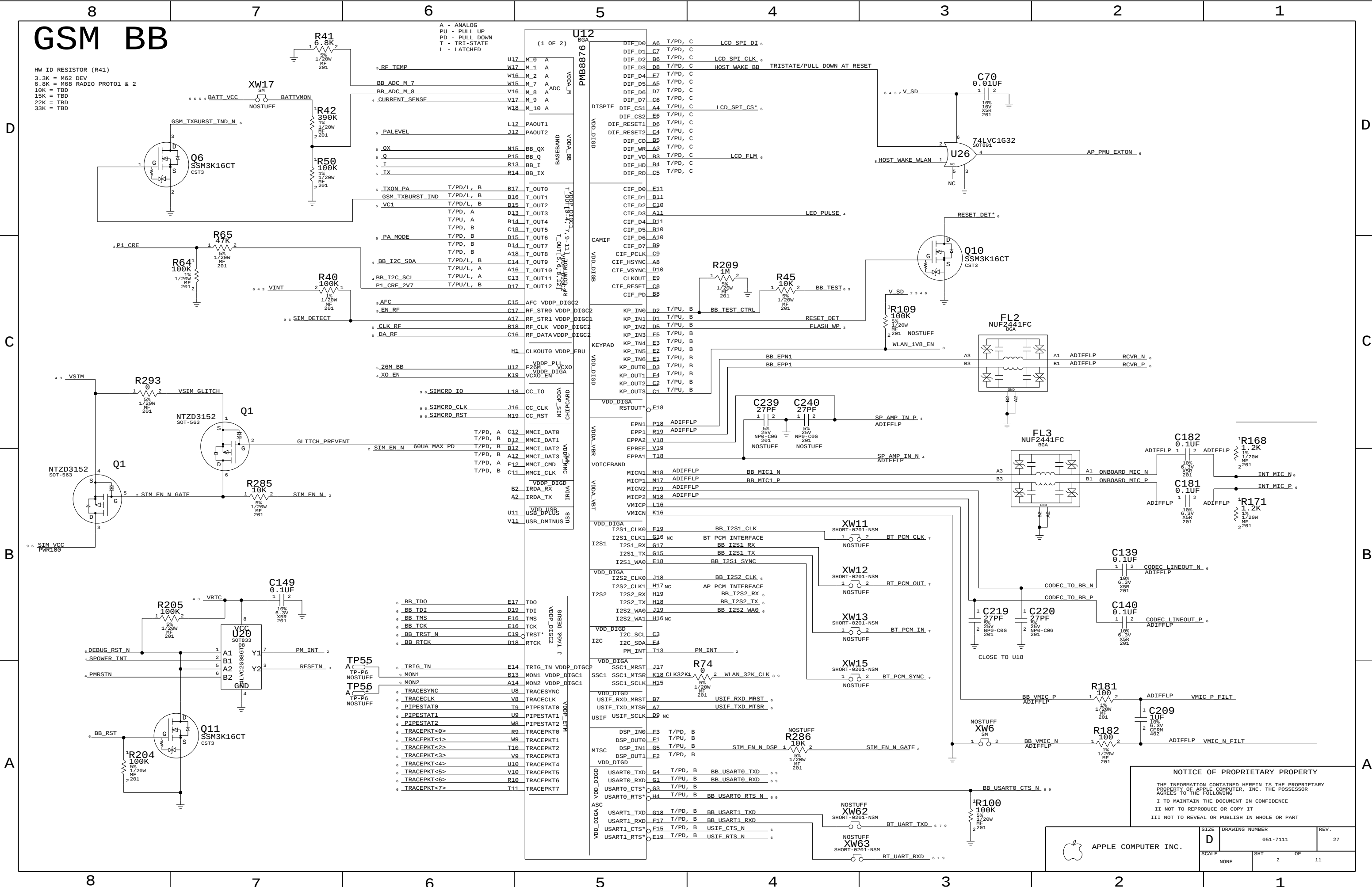
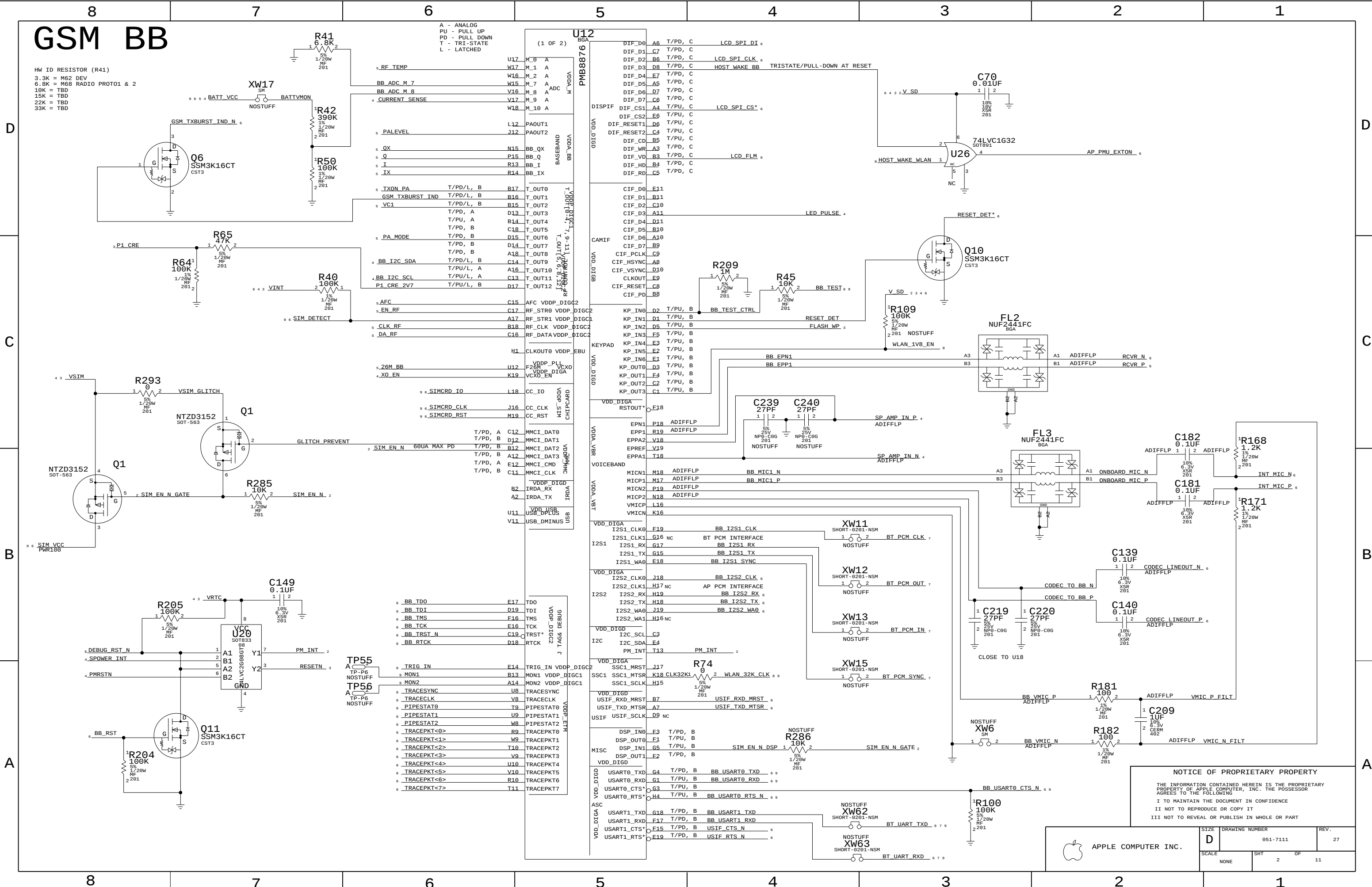
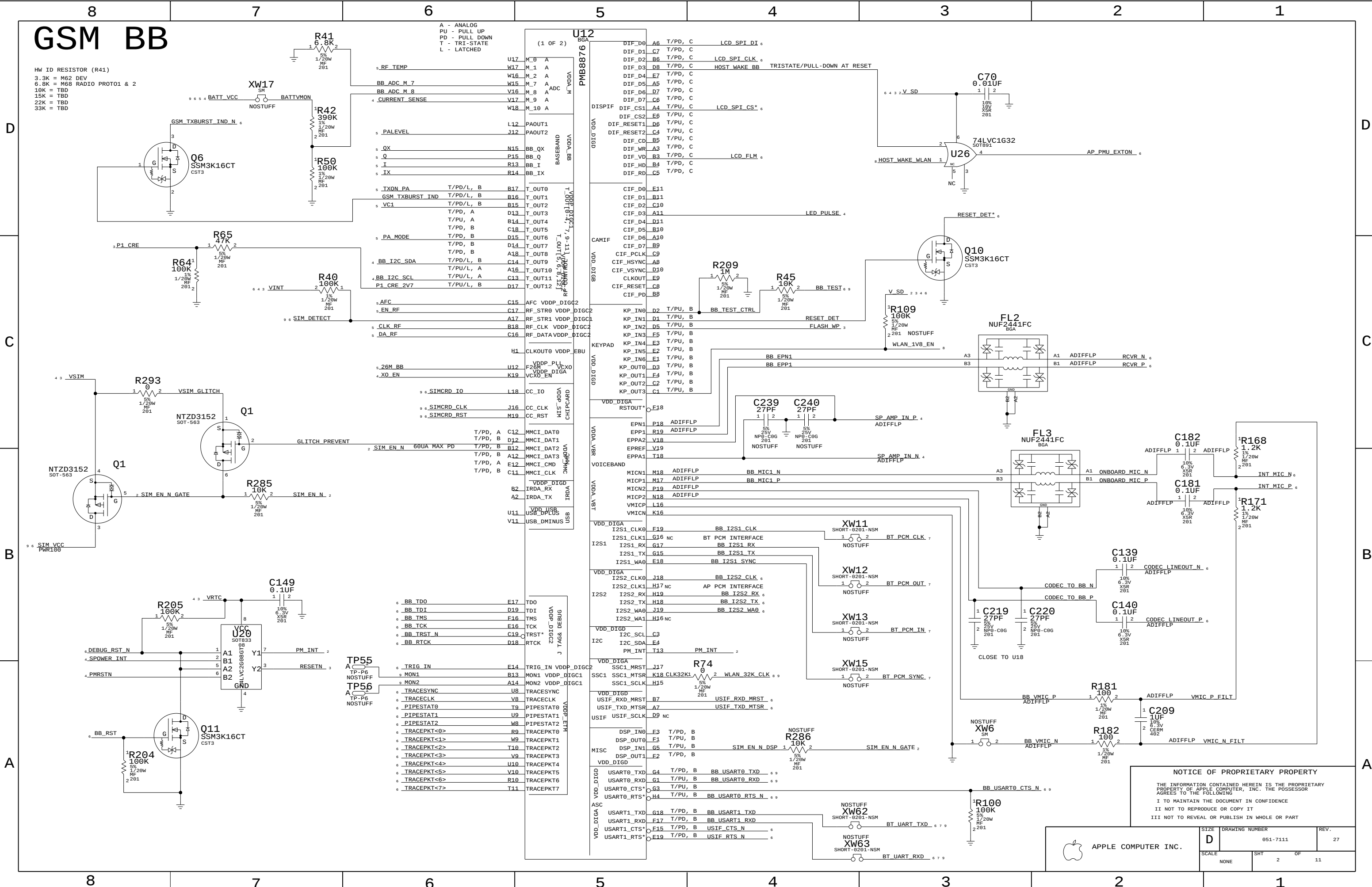
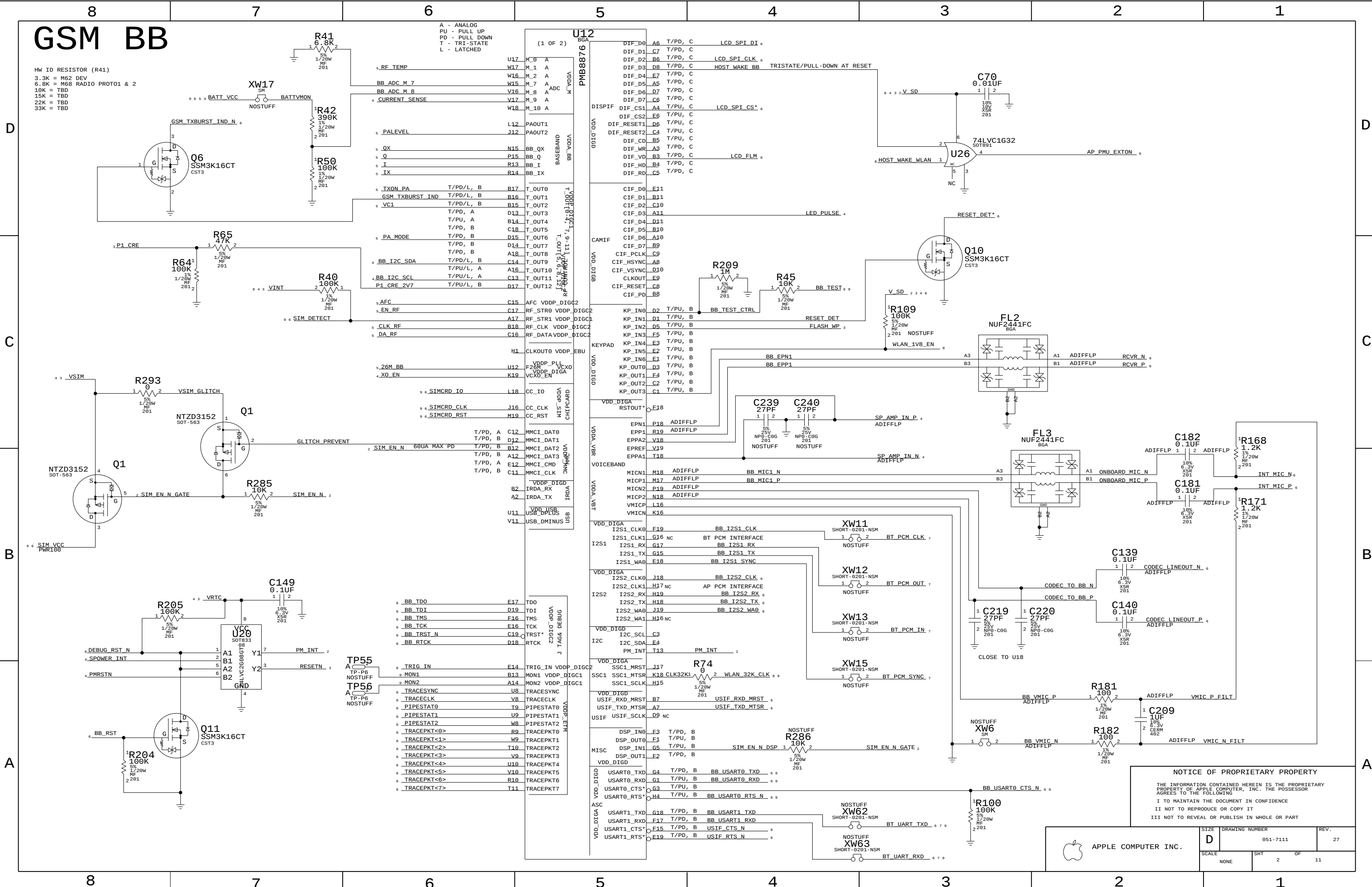
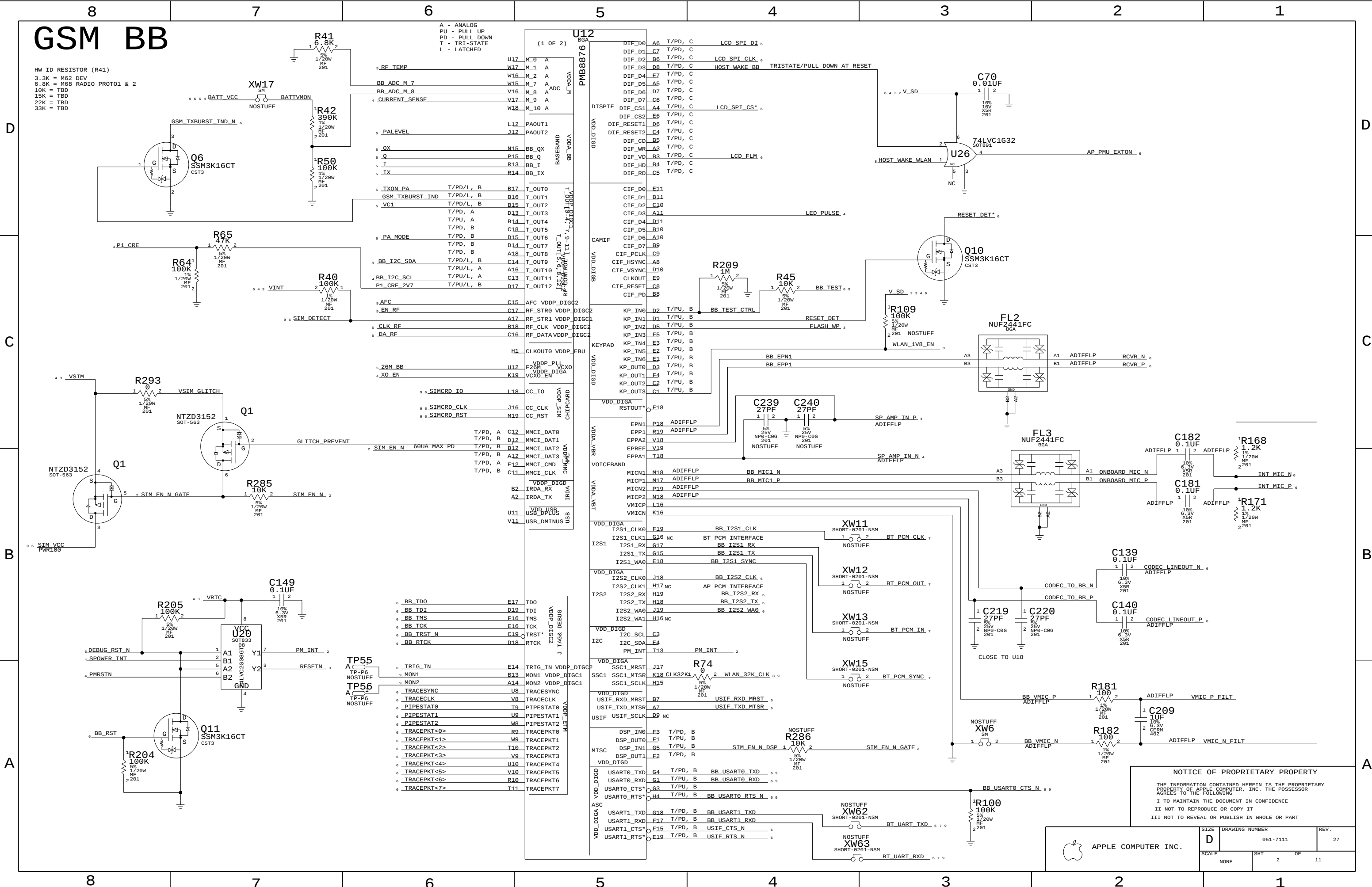
SHT 1 OF 11

GSM BB

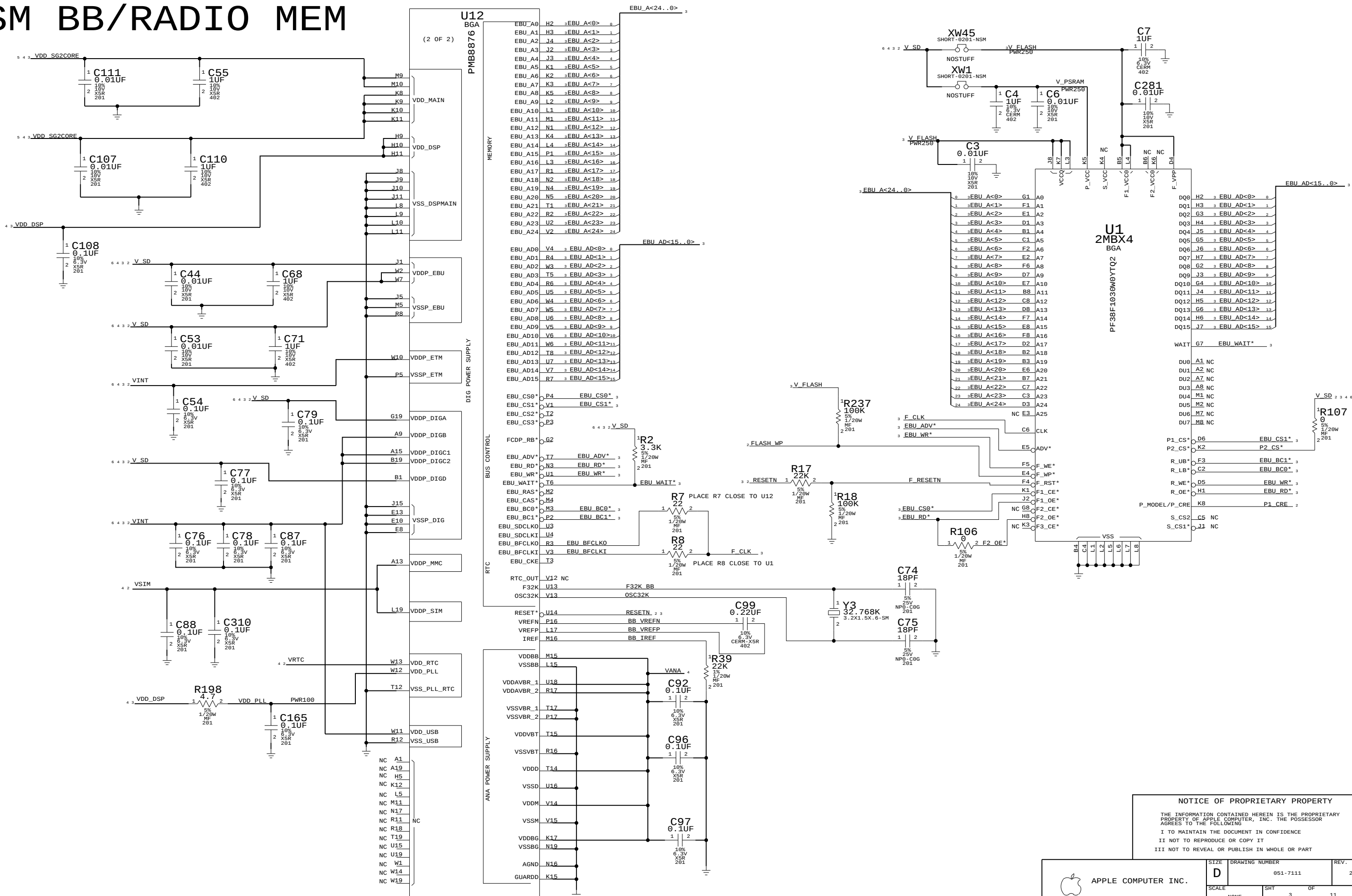
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 3.3K = M62 DEV
 6.8K = M68 RADIO PROTO1 & 2
 10K = TBD
 15K = TBD
 22K = TBD
 33K = TBD

Legend:
 A - ANALOG
 PU - PULL UP
 PD - PULL DOWN
 T - TRI-STATE
 L - LATCHED

Component List:
 R41 6.8K
 R42 390K
 R43 100K
 R44 100K
 R45 10K
 R46 10K
 R47 10K
 R48 10K
 R49 10K
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GSM BB/RADIO MEM



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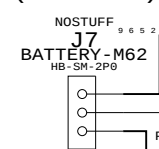
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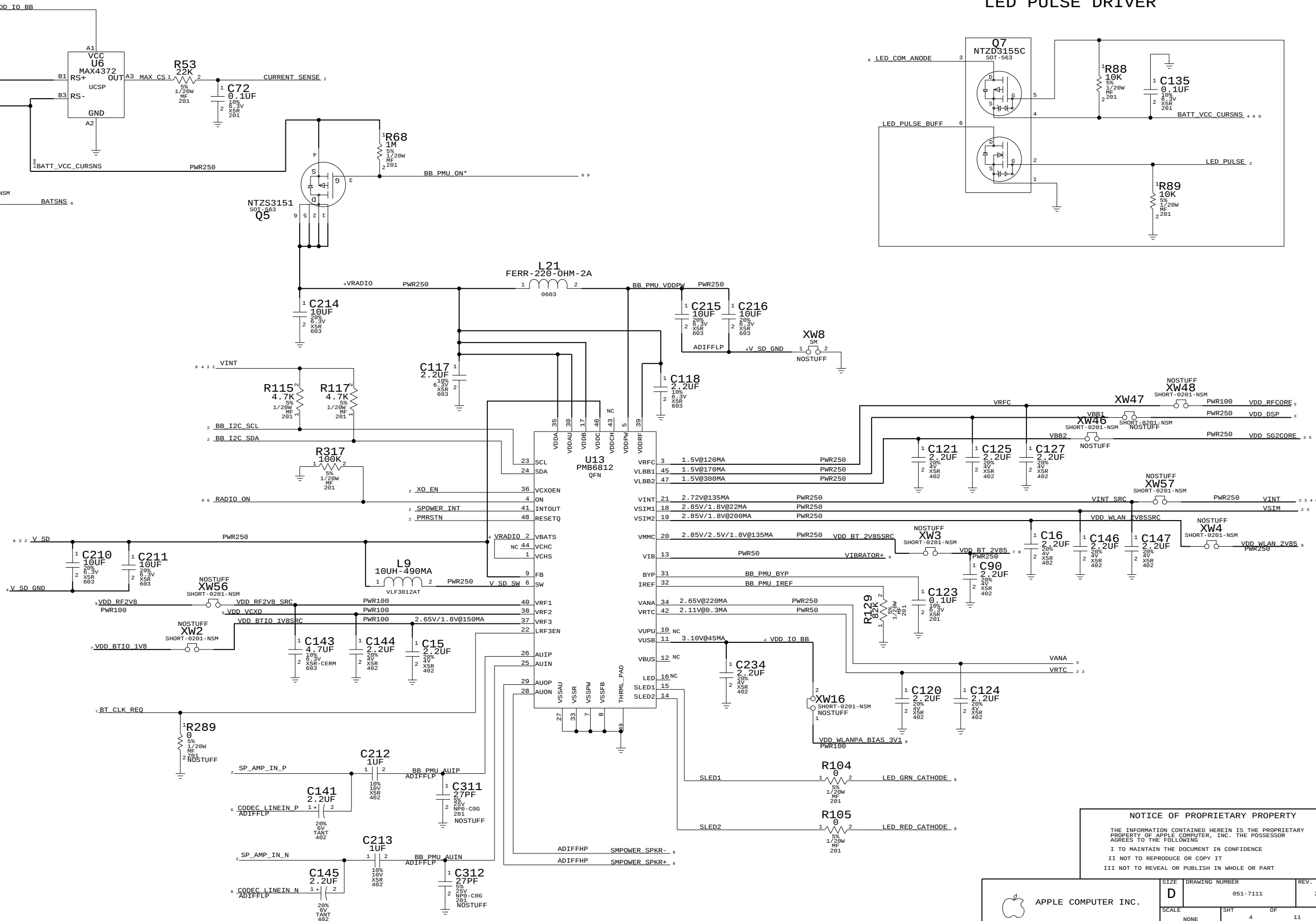
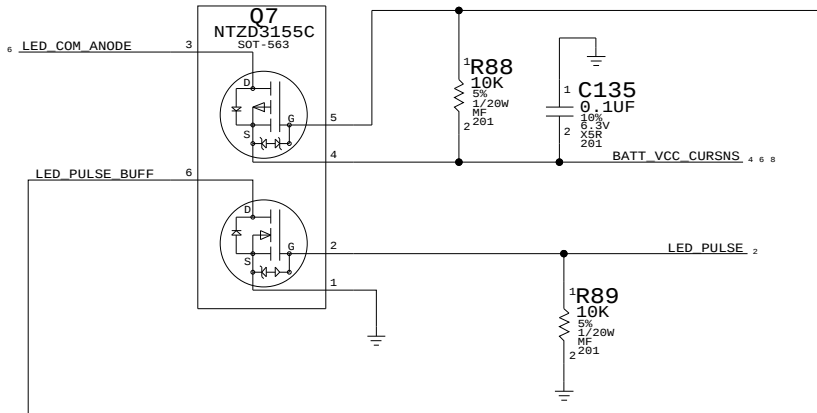
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PMU

BATTERY CONNECTOR (HOT-BAR)



LED PULSE DRIVER



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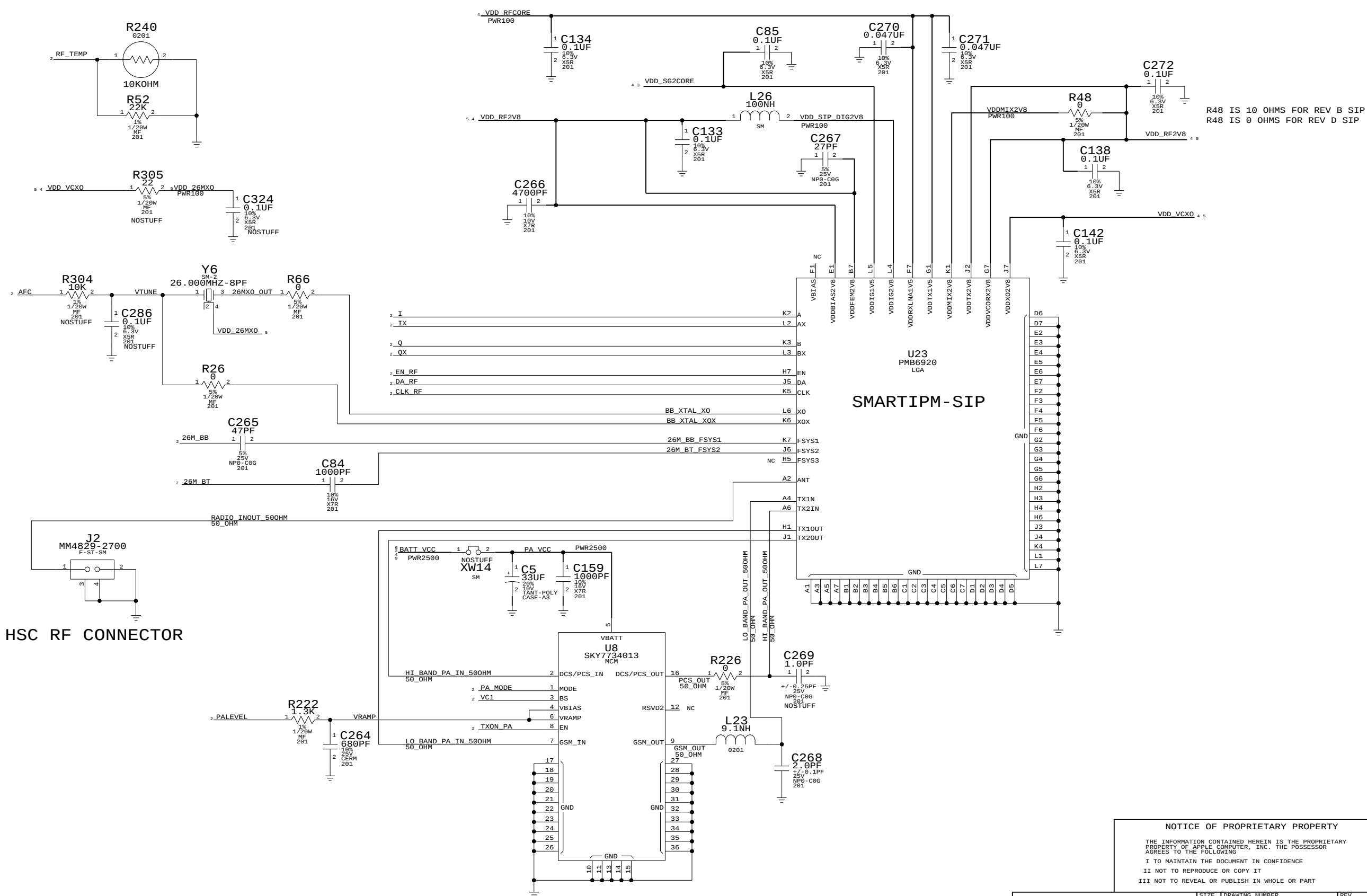
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SIZE	DRAWING NUMBER	REV.
D	051-7111	27
SCALE	SHT	OF
NONE	4	11

GSM RF - SMARTIPM-SIP + SKYWORKS



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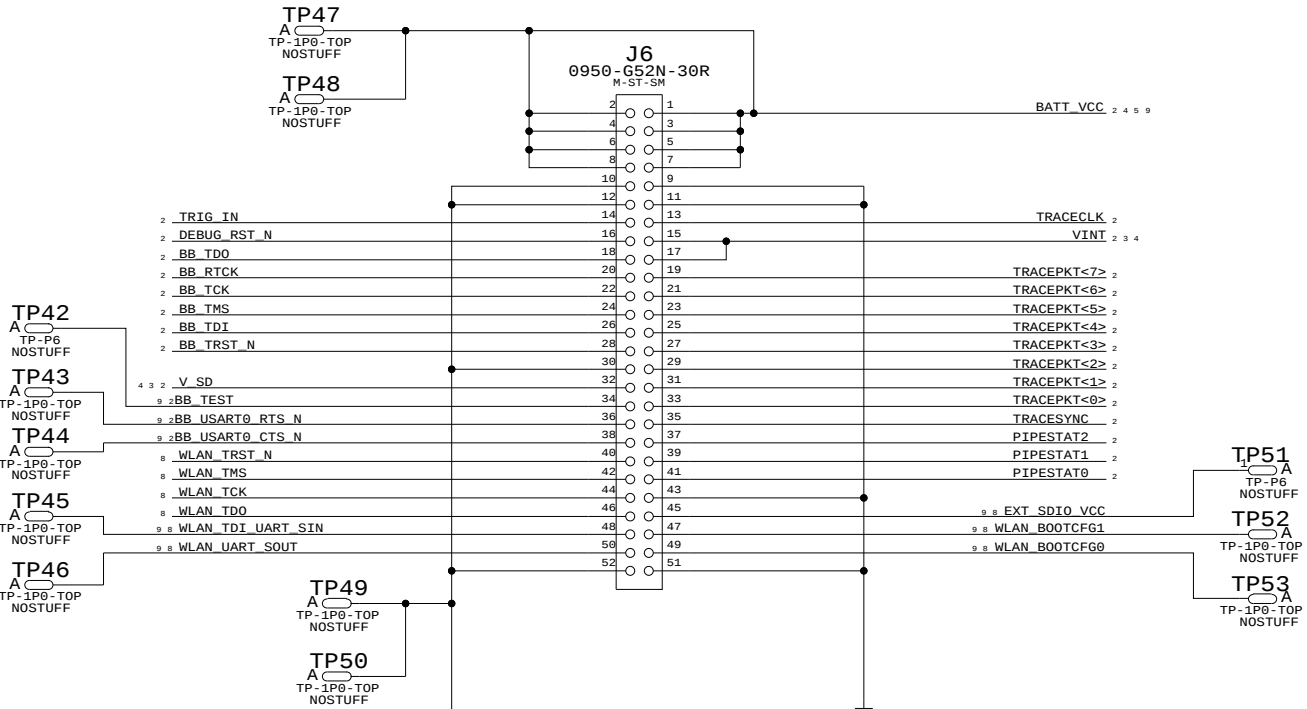
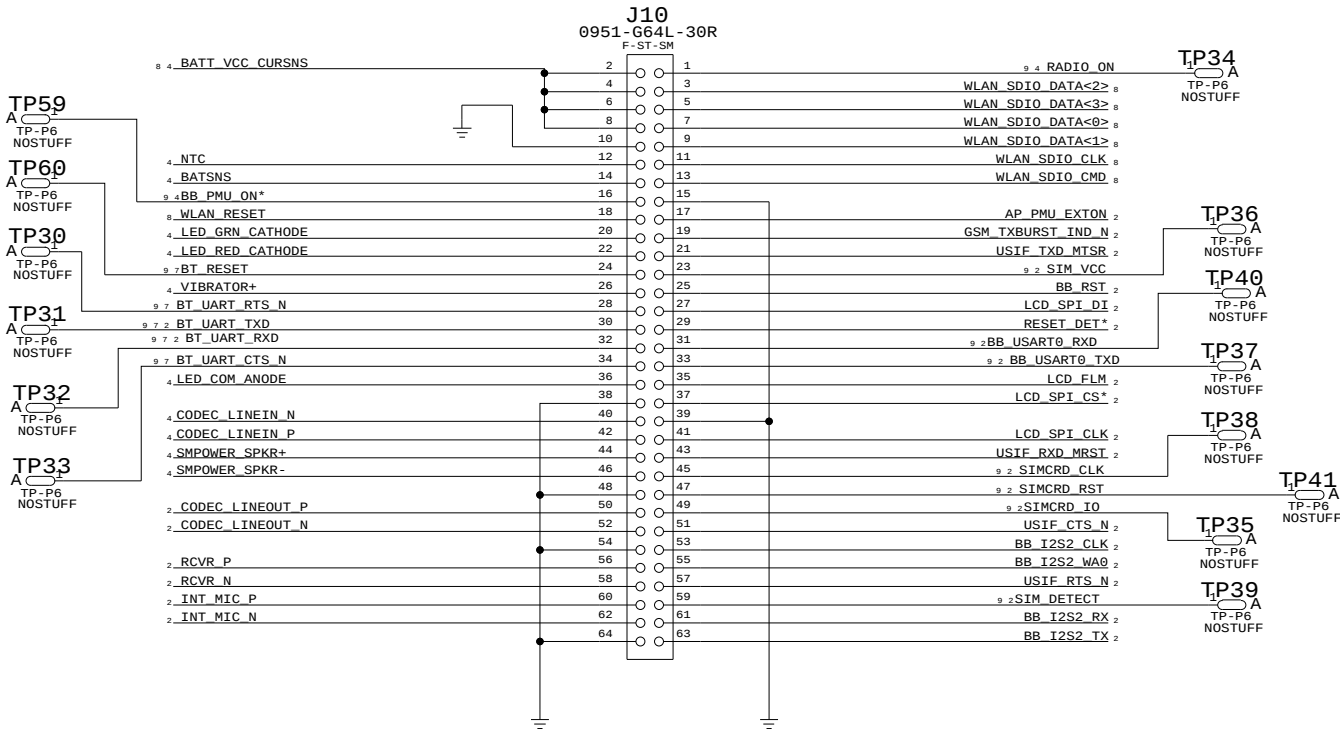
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 APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-7111	REV. 27
	SCALE NONE	SHT 5 OF 11	

SYSTEM CONNECTORS

AP CONNECTOR
516S0505

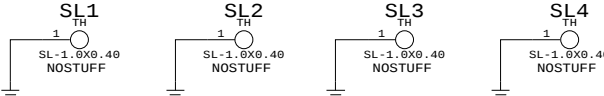
DEBUG CONNECTOR
998-1410



SHIELD CAN



SHIELD CAN ALIGNMENT SLOTS



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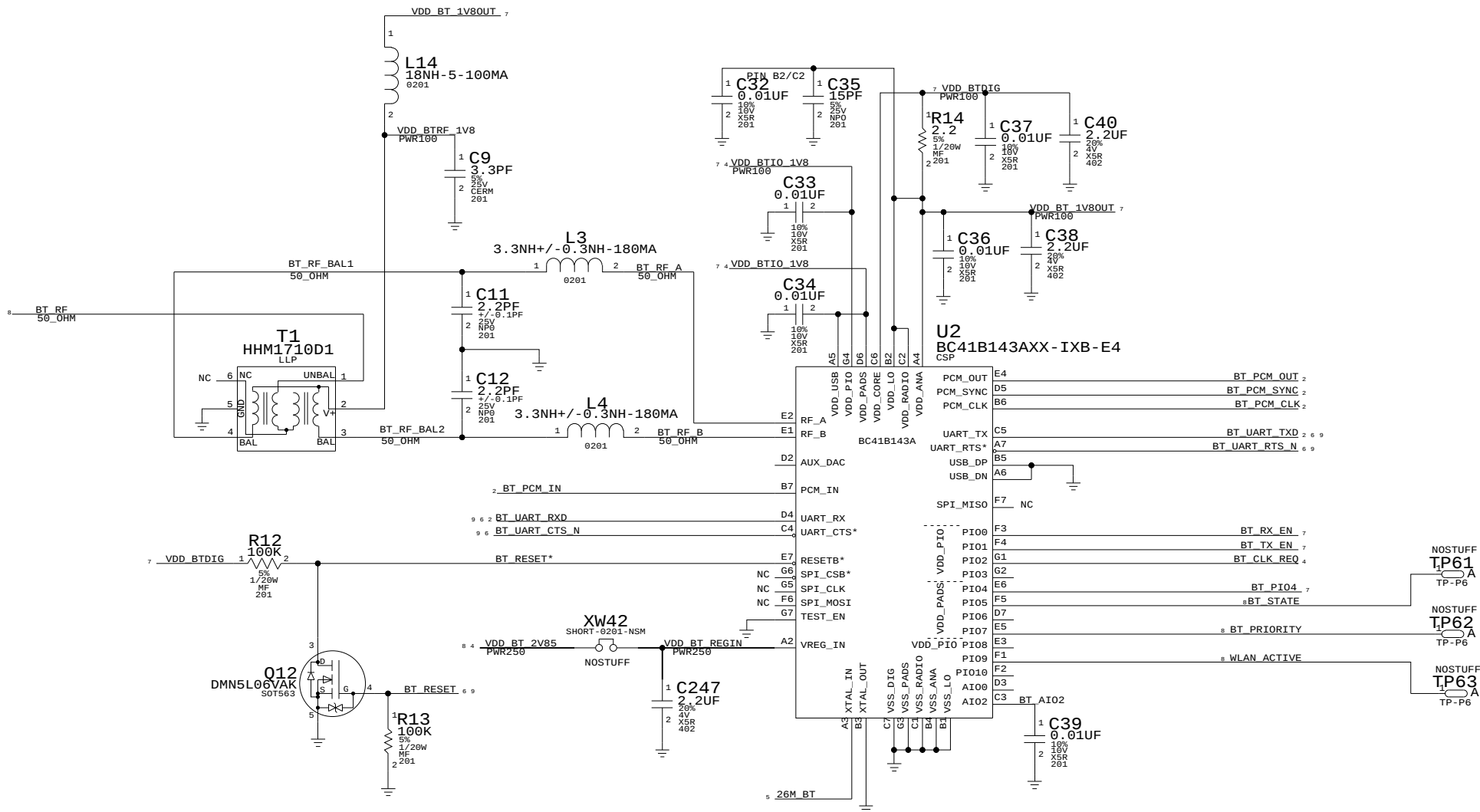
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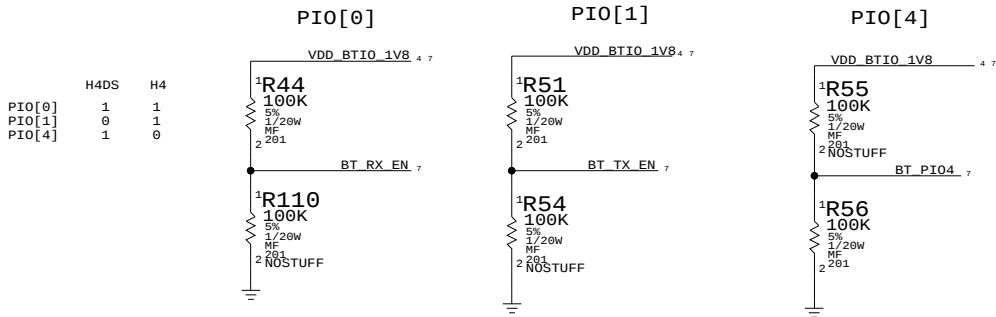
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APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-7111	REV. 27
	SCALE NONE	SHT 6	OF 11

BLUETOOTH RADIO



HOST TRANSPORT CONFIGURATION RESISTORS



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The image shows a complex circuit board layout for a WLAN radio. The board is populated with numerous components, including capacitors (C131, C41, C42, C49, C61, C62, C63, C100, C102, C103, C106, C109, C114, C115, C116, C119, C122, C136, C148, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193, C194, C195, C196, C197, C198, C199, C200, C201, C202, C203, C204, C205, C206, C207, C208, C209, C210, C211, C212, C213, C214, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C225, C226, C227, C228, C229, C230, C231, C232, C233, C234, C235, C236, C237, C238, C239, C240, C241, C242, C243, C244, C245, C246, C247, C248, C249, C250, C251, C252, C253, C254, C255, C256, C257, C258, C259, C260, C261, C262, C263, C264, C265, C266, C267, C268, C269, C270, C271, C272, C273, C274, C275, C276, C277, C278, C279, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C292, C293, C294, C295, C296, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C327, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C341, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416, C417, C418, C419, C420, C421, C422, C423, C424, C425, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, C436, C437, C438, C439, C440, C441, C442, C443, C444, C445, C446, C447, C448, C449, C450, C451, C452, C453, C454, C455, C456, C457, C458, C459, C460, C461, C462, C463, C464, C465, C466, C467, C468, C469, C470, C471, C472, C473, C474, C475, C476, C477, C478, C479, C480, C481, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C494, C495, C496, C497, C498, C499, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758, C759, C760, C761, C762, C763, C764, C765, C766, C767, C768, C769, C770, C771, C772, C773, C774, C775, C776, C777, C778, C779, C780, C781, C782, C783, C784, C785, C786, C787, C788, C789, C790, C791, C792, C793, C794, C795, C796, C797, C798, C799, C800, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C811, C812, C813, C814, C815, C816, C817, C818, C819, C820, C821, C822, C823, C824, C825, C826, C827, C828, C829, C830, C831, C832, C833, C834, C835, C836, C837, C838, C839, C840, C841, C842, C843, C844, C845, C846, C847, C848, C849, C850, C851, C852, C853, C854, C855, C856, C857, C858, C859, C860, C861, C862, C863, C864, C865, C866, C867, C868, C869, C870, C871, C872, C873, C874, C875, C876, C877, C878, C879, C880, C881, C882, C883, C884, C885, C886, C887, C888, C889, C890, C891, C892, C893, C894, C895, C896, C897, C898, C899, C900, C901, C902, C903, C904, C905, C906, C907, C908, C909, C910, C911, C912, C913, C914, C915, C916, C917, C918, C919, C920, C921, C922, C923, C

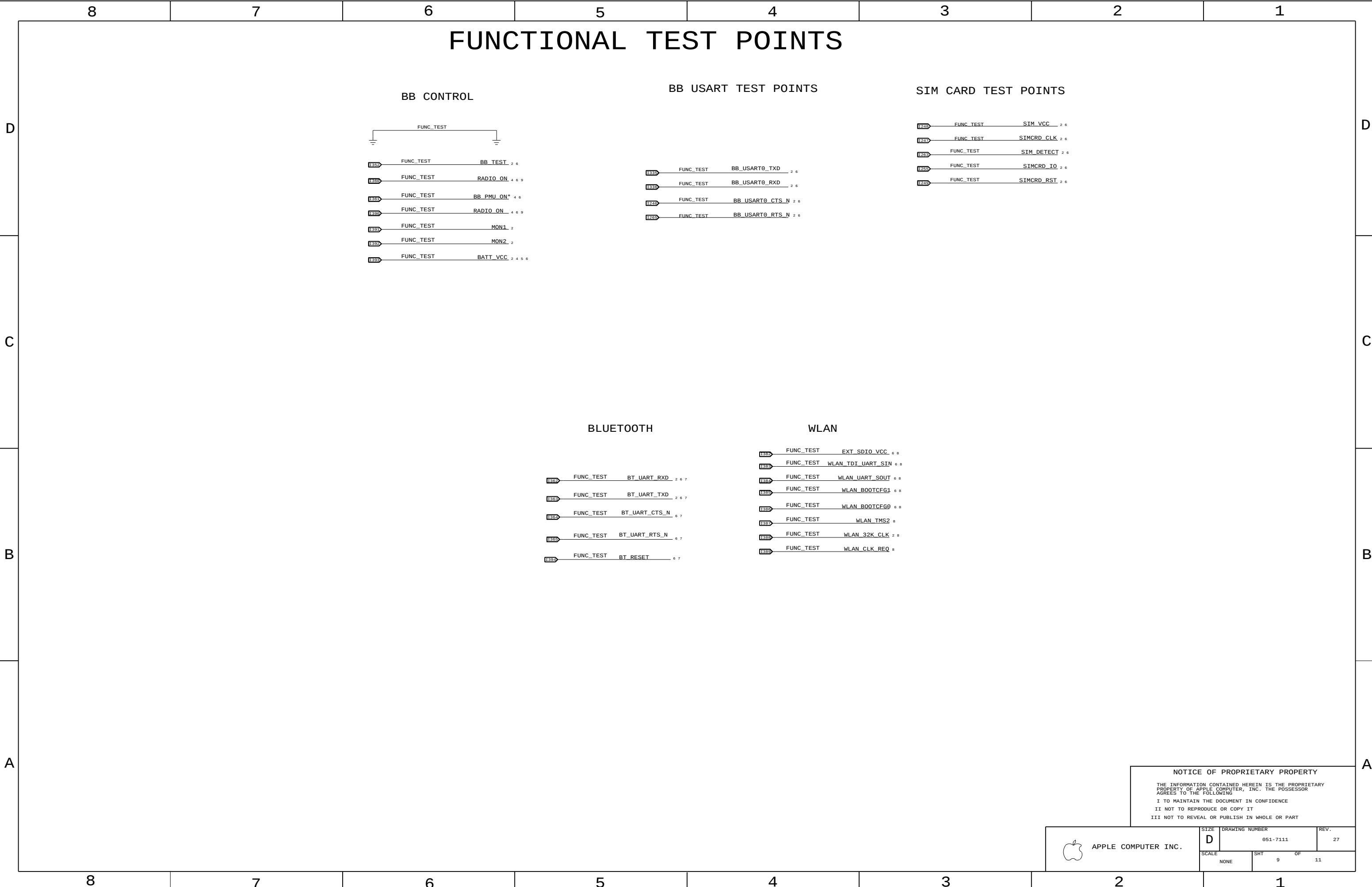
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SIZE D	DRAWING NUMBER 051-7111	REV. 27
SCALE NONE	SHT 8	OF 11



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D	Title: Basenet Report				Design: m68				Date: Nov 6 14:16:29 2006				Base nets and synonyms for m68_lib.M68 (@m68_lib.m68(sch_1))				Base Signal				Synonyms				Location([Zone][dir])																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	26MX0_OUT - @m68_lib.M68				26M_BB - @m68_lib.M68				26M_BB_FSYS1 - @m68_lib.M68				26M_BT - @m68_lib.M68				26M_BT_FSYS2 - @m68_lib.M68				AFC - @m68_lib.M68				AP_PMU_EXTON - @m68_lib.M68				BATSNS - @m68_lib.M68				BATTVMON - @m68_lib.M68				BATT_VCC - @m68_lib.M68				BATT_VCC_CURSNS - @m68_lib.M68				BB_ADC_M_7 - @m68_lib.M68				BB_ADC_M_8 - @m68_lib.M68				BB_EPNI - @m68_lib.M68				BB_EPP1 - @m68_lib.M68				BB_I2C_SCL - @m68_lib.M68				BB_I2C_SDA - @m68_lib.M68				BB_I2S1_CLK - @m68_lib.M68				BB_I2S1_RX - @m68_lib.M68				BB_I2S1_SYNC - @m68_lib.M68				BB_I2S1_TX - @m68_lib.M68				BB_I2S2_CLK - @m68_lib.M68				BB_I2S2_RX - @m68_lib.M68				BB_I2S2_TX - @m68_lib.M68				BB_I2S2_WA0 - @m68_lib.M68				BB_IREF - @m68_lib.M68				BB_MIC1_N - @m68_lib.M68				BB_MIC1_P - @m68_lib.M68				BB_PMU_AUIN - @m68_lib.M68				BB_PMU_AUIP - @m68_lib.M68				BB_PMU_BYP - @m68_lib.M68				BB_PMU_IREF - @m68_lib.M68				BB_PMU_ON* - @m68_lib.M68				BB_PMU_VDDPW - @m68_lib.M68				BB_RST - @m68_lib.M68				BB_RTCK - @m68_lib.M68				BB_TCK - @m68_lib.M68				BB_TDI - @m68_lib.M68				BB_TDO - @m68_lib.M68				BB_TEST - @m68_lib.M68				BB_TEST_CTRL - @m68_lib.M68				BB_TMS - @m68_lib.M68				BB_TRST_N - @m68_lib.M68				BB_USART0_CTS_N - @m68_lib.M68				BB_USART0_RTS_N - @m68_lib.M68				BB_USART0_RXD - @m68_lib.M68				BB_USART0_TXD - @m68_lib.M68				BB_USART1_RXD - @m68_lib.M68				BB_USART1_TXD - @m68_lib.M68				BB_VMIC_N - @m68_lib.M68				BB_VMIC_P - @m68_lib.M68				BB_VREFN - @m68_lib.M68				BB_VREFP - @m68_lib.M68				BB_XTAL_X0 - @m68_lib.M68				BB_XTAL_X0X - @m68_lib.M68				BTWLAN_RX - @m68_lib.M68				BTWLAN_RX_SHARED - @m68_lib.M68				BT_A102 - @m68_lib.M68				BT_CLK_REQ - @m68_lib.M68				BT_PCM_CLK - @m68_lib.M68				BT_PCM_IN - @m68_lib.M68				BT_PCM_OUT - @m68_lib.M68				BT_PCM_SYNC - @m68_lib.M68				BT_P104 - @m68_lib.M68				BT_PRIORITY - @m68_lib.M68				BT_RESET - @m68_lib.M68				BT_RESET* - @m68_lib.M68				BT_RF - @m68_lib.M68				BT_RF_A - @m68_lib.M68				BT_RF_B - @m68_lib.M68				BT_RF_BAL1 - @m68_lib.M68				BT_RF_BAL2 - @m68_lib.M68				BT_RF_SW - @m68_lib.M68				BT_RX_CPL - @m68_lib.M68				BT_RX_CPL_SW - @m68_lib.M68				BT_RX_EN - @m68_lib.M68				BT_STATE - @m68_lib.M68				BT_ST_B4 - @m68_lib.M68				BT_TX - @m68_lib.M68				BT_TXRX_EN - @m68_lib.M68				BT_TX_EN - @m68_lib.M68				BT_TX_OUT - @m68_lib.M68				BT_UART_CTS_N - @m68_lib.M68				BT_UART_RTS_N - @m68_lib.M68				BT_UART_RXD - @m68_lib.M68				BT_UART_TXD - @m68_lib.M68				BT_WLAN_ANT - @m68_lib.M68				BT_WLAN_FLTOUT - @m68_lib.M68				BT_WLAN_RF_INOUT - @m68_lib.M68				CLK32K - @m68_lib.M68				CLK_RF - @m68_lib.M68				CODEC_LINEIN_N - @m68_lib.M68				CODEC_LINEIN_P - @m68_lib.M68				CODEC_LINEOUT_N - @m68_lib.M68				CODEC_LINEOUT_P - @m68_lib.M68				CODEC_TO_BB_N - @m68_lib.M68				CODEC_TO_BB_P - @m68_lib.M68				CPLTERM - @m68_lib.M68				CURRENT_SENSE - @m68_lib.M68				DA_RF - @m68_lib.M68				DEBUG_RST_N - @m68_lib.M68				EBU_A<0> - @m68_lib.M68				EBU_A<24..0> - @m68_lib.M68				EBU_A<1> - @m68_lib.M68				EBU_A<2> - @m68_lib.M68				EBU_A<3> - @m68_lib.M68				EBU_A<4> - @m68_lib.M68				EBU_A<5> - @m68_lib.M68				EBU_A<6> - @m68_lib.M68				EBU_A<7> - @m68_lib.M68				EBU_A<8> - @m68_lib.M68				EBU_A<9> - @m68_lib.M68				EBU_A<10> - @m68_lib.M68				EBU_A<11> - @m68_lib.M68				EBU_A<12> - @m68_lib.M68				EBU_A<13> - @m68_lib.M68				EBU_A<14> - @m68_lib.M68																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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D	Title: Cref Part Report Design: m68 Date: Nov 6 14:16:29 2006																						
	C3	CAP_201	m68[303]				C219	CAP_201	m68[2B3]				R106	RES_201	m68[3B3]								
	C4	CAP_402	m68[303]				C220	CAP_201	m68[2B3]				R107	RES_201	m68[3C1]								
	C5	CAP_P_CASE-A3	m68[585]				C234	CAP_402	m68[4A4]				R108	RES_201	m68[8B5]								
	C6	CAP_201	m68[3D2]				C239	CAP_201	m68[2C4]				R109	RES_201	m68[2C3]								
	C7	CAP_402	m68[3D2]				C240	CAP_201	m68[2C4]				R110	RES_201	m68[7A5]								
	C9	CAP_201	m68[7C6]				C247	CAP_402	m68[7B5]				R111	RES_201	m68[8A6]								
	C11	CAP_201	m68[7C6]				C264	CAP_201	m68[5A6]				R115	RES_201	m68[4C6]								
	C12	CAP_201	m68[7C6]				C265	CAP_201	m68[5B6]				R117	RES_201	m68[4C6]								
	C15	CAP_402	m68[4B5]				C266	CAP_201	m68[5C5]				R129	RES_201	m68[4B3]								
C	C16	CAP_402	m68[4B2]				C267	CAP_201	m68[5D3]				R168	RES_201	m68[2B1]								
	C18	CAP_402	m68[8C5]				C268	CAP_201	m68[5A4]				R171	RES_201	m68[2B1]								
	C19	CAP_402	m68[8C5]				C269	CAP_201	m68[5A3]				R181	RES_201	m68[2A2]								
	C20	CAP_201	m68[8C4]				C270	CAP_201	m68[5D3]				R182	RES_201	m68[2A2]								
	C21	CAP_201	m68[8B2]				C271	CAP_201	m68[5D3]				R198	RES_201	m68[3A7]								
	C32	CAP_201	m68[7D5]				C272	CAP_201	m68[5D2]				R204	RES_201	m68[2A8]								
	C33	CAP_201	m68[7C5]				C281	CAP_201	m68[3D2]				R205	RES_201	m68[2B8]								
	C34	CAP_201	m68[7C5]				C286	CAP_201	m68[5C7]				R209	RES_201	m68[2C4]								
	C35	CAP_201	m68[7D5]				C300	CAP_201	m68[8C3]				R222	RES_201	m68[5A6]								
	C36	CAP_201	m68[7C4]				C310	CAP_201	m68[3B7]				R226	RES_201	m68[5A4]								
B	C37	CAP_201	m68[7D4]				C311	CAP_201	m68[4A5]				R237	RES_201	m68[3C4]								
	C38	CAP_402	m68[7C4]				C312	CAP_201	m68[4A5]				R240	THERMISTER_0201	m68[5D7]								
	C39	CAP_201	m68[7B4]				C324	CAP_201	m68[5C6]				R285	RES_201	m68[2B7]								
	C40	CAP_402	m68[7D4]				FL2	FIL_NUF2441FC_SWAP_B	m68[2C3]				R286	RES_201	m68[2A4]								
	C41	CAP_402	m68[8D6]				FL3	FIL_NUF2441FC_SWAP_B	m68[2B2]				R289	RES_201	m68[4A6]								
	C42	CAP_402	m68[8D5]				FL4	FILTER_LDC182G_LDC18	m68[8B2]				R293	RES_201	m68[2C8]								
	C43	CAP_201	m68[8C1]				FL5	FILTER_LFB2H_2_5X2MM	m68[8D4]				R304	RES_201	m68[5C7]								
	C44	CAP_201	m68[3C7]					-SM					R305	RES_201	m68[5C7]								
	C49	CAP_201	m68[8D6]				J2	CON_F2ST_COAX_S2MT_S	m68[5B7]				R317	RES_201	m68[4B6]								
	C51	CAP_201	m68[8D2]				J4	CON_F2ST_COAX_S2MT_S	m68[8D4]				SH1	SHLD_1P_SM1	m68[6A7]								
A	C52	CAP_201	m68[8C2]					M_F-ST-SM					SH2	SHLD_1P_SM1	m68[6A6]								
	C53	CAP_201	m68[3C7]				J6	CON_M52ST_D_SM_M-ST-	m68[6C3]				SL1	SLOT_TH	m68[6A7]								
	C54	CAP_201	m68[3C7]					M_F-ST-SM					SL2	SLOT_TH	m68[6A7]								
	C55	CAP_402	m68[3D7]					CON_F2ST_COAX_S2MT_S	m68[8D4]				SL3	SLOT_TH	m68[6A6]								
	C61	CAP_402	m68[8D5]					M_F-ST-SM					SL4	SLOT_TH	m68[6A6]								
	C62	CAP_201	m68[8B4]					CON_M52ST_D_SM_M-ST-	m68[6C3]				T1	XFR_HHM1710D1_LLP	m68[7C7]								
	C63	CAP_201	m68[8B4]					SM					TP30	TP_TP-P6	m68[6C8]								
	C65	CAP_201	m68[8C3]				J7	CON_3HB_S_HB-SM-ZP0	m68[4D8]				TP31	TP_TP-P6	m68[6C8]								
	C68	CAP_402	m68[3C7]				J10	CON_F64ST_D_SM_F-ST-	m68[6C6]				TP32	TP_TP-P6	m68[6C8]								
	C70	CAP_201	m68[2D3]					SM					TP33	TP_TP-P6	m68[6B8]								
A	C71	CAP_402	m68[3C7]				L3	IND_0201	m68[7C5]				TP34	TP_TP-P6	m68[6C5]								
	C72	CAP_201	m68[4D6]				L4	IND_0201	m68[7C5]				TP35	TP_TP-P6	m68[6B5]								
	C74	CAP_201	m68[3B3]				L5	IND_03015	m68[8C4]				TP36	TP_TP-P6	m68[6C5]								
	C75	CAP_201	m68[3B3]				L8	IND_0201	m68[8A4]				TP37	TP_TP-P6	m68[6C5]								
	C76	CAP_201	m68[3B7]				L9	IND_VLF3012AT	m68[4B5]				TP38	TP_TP-P6	m68[6C5]								
	C77	CAP_201	m68[3B7]				L10	IND_0201	m68[8A4]				TP39	TP_TP-P6	m68[6B5]								
	C78	CAP_201	m68[3B7]				L11	IND_0201	m68[8A4]				TP40	TP_TP-P6	m68[6C5]								
	C79	CAP_201	m68[3C7]				L14	IND_0201	m68[7D6]				TP41	TP_TP-P6	m68[6B5]								
	C84	CAP_201	m68[5B6]				L15	IND_03015	m68[8C4]				TP42	TP_TP-P6	m68[6C4]								

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