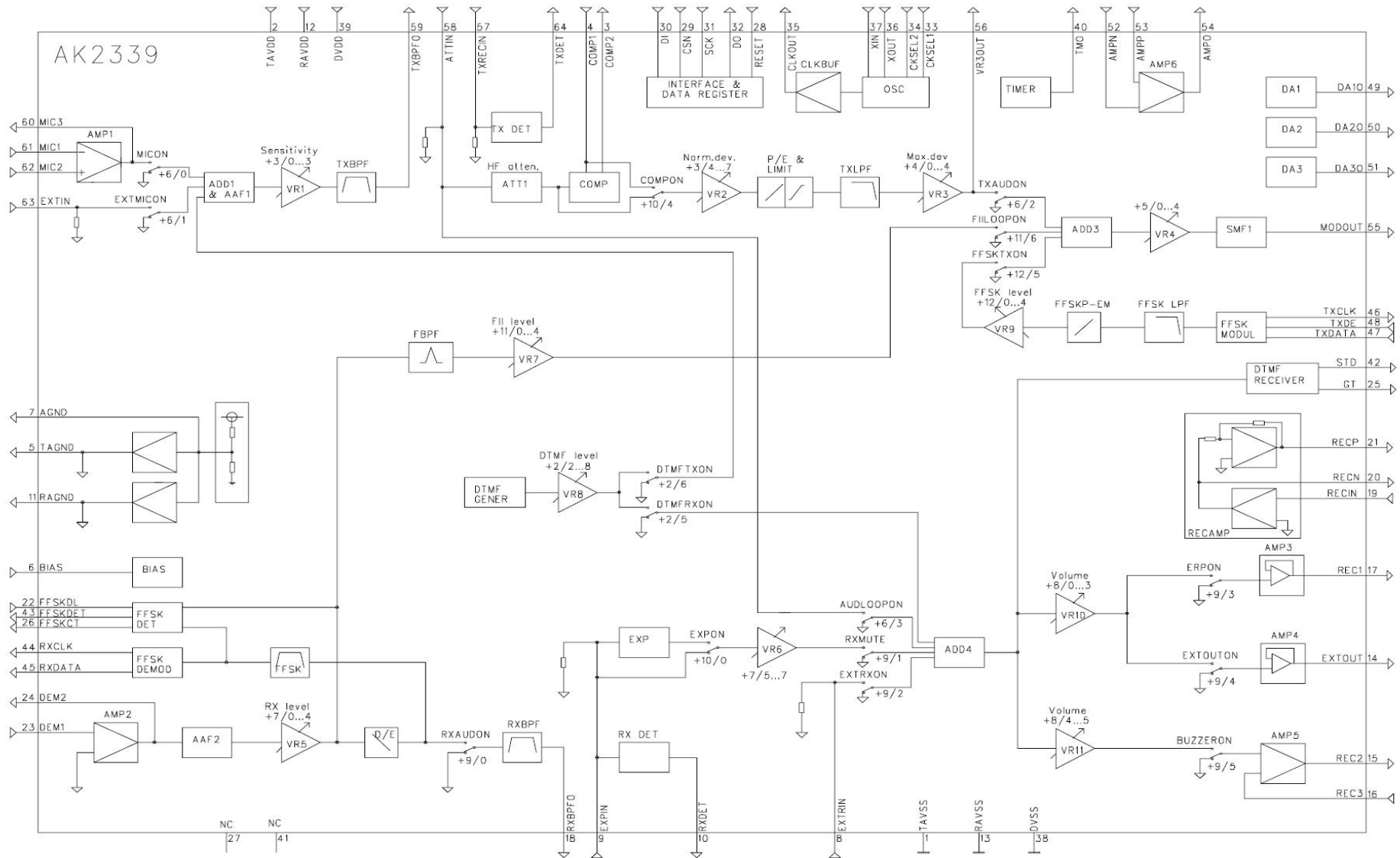


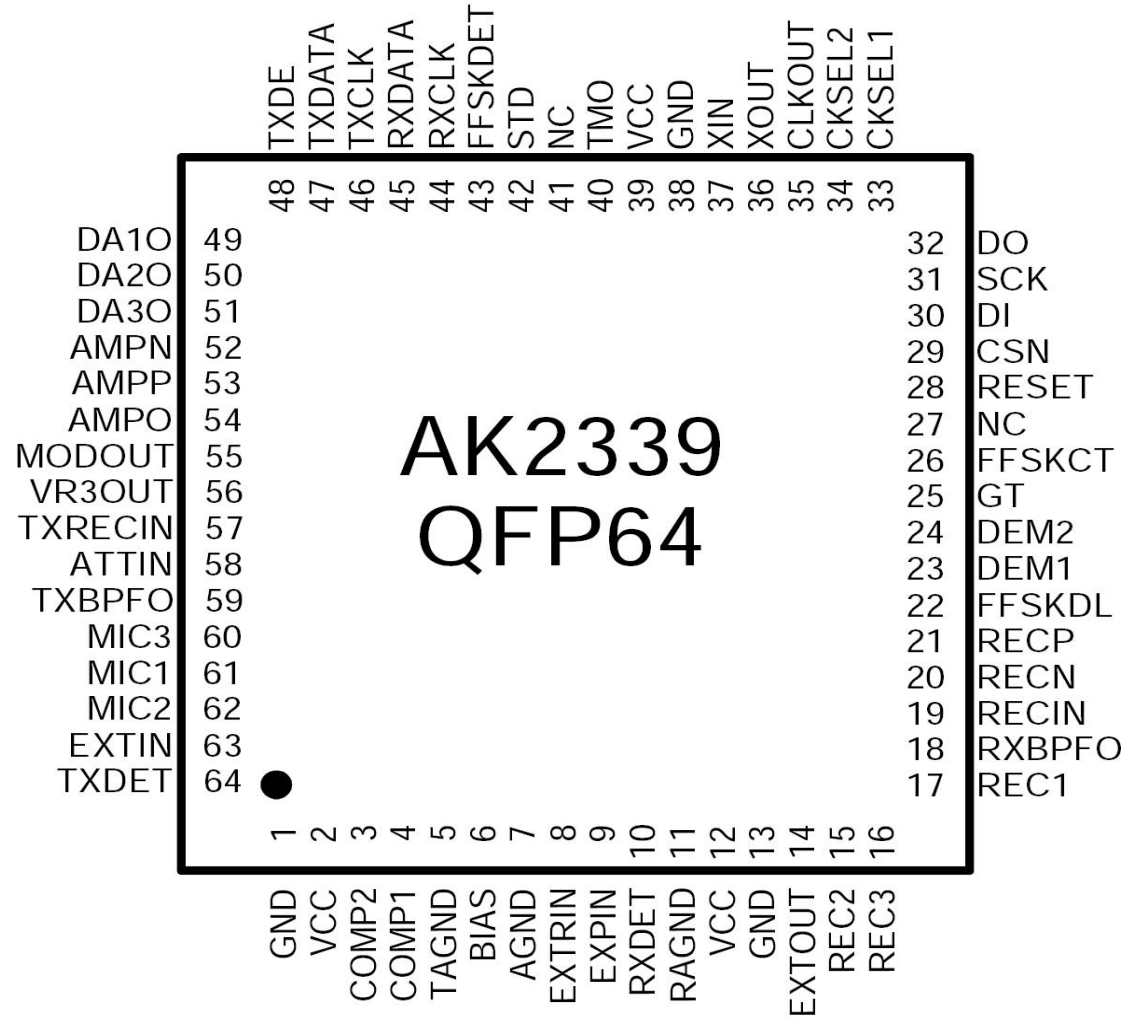
TX		RX						DTMF	
Address	D7	D6	D5	D4	D3	D2	D1	D0	
00h	DTMF HIGH FREQ 8bit								
01h	DTMF LOW FREQ 8bit								
02h	0	DTMFTXON	DTMFRXON	VR8 / DTMF Level* 001			DTMF Hi ON	DTMF LowON	0xx0 01xx
03h	Norm. Dev.				Sensitivity				
04h	1	0	0	Max. Dev.					
05h	0	0	0	VR4 (Deviation)					
06h	1	1	1	1	AUDLOOPON	TXAUDON	EXTMICON	MICON	1111 x00x
07h	VR6 / RX			RX Level					
08h	0	0	VR11 / RX Volume		VR10 / RX Volume				
09h	0	0	BUZZERON	EXTOUTON	ERPON	EXTRXON	RXMUTE	RXAUDON	
0Ah	1	0	0	COMPON	1	0	0	EXPON	
0Bh	0	FIILLOOPON	0	VR7 / FII Level					
0Ch	0	0	FFSKTXON	VR9 / FFSK Level					
0Dh	?	0	0	?	0	1	?	1	0x97 / 0x05
10h	DA1 OUTPUT VOLTAGE 8bit								
95h	?								0xFF
?h	DA2 8bit								
?h	DA3 8bit								
?h	TIMER 8bit								
DTMF Receiver									

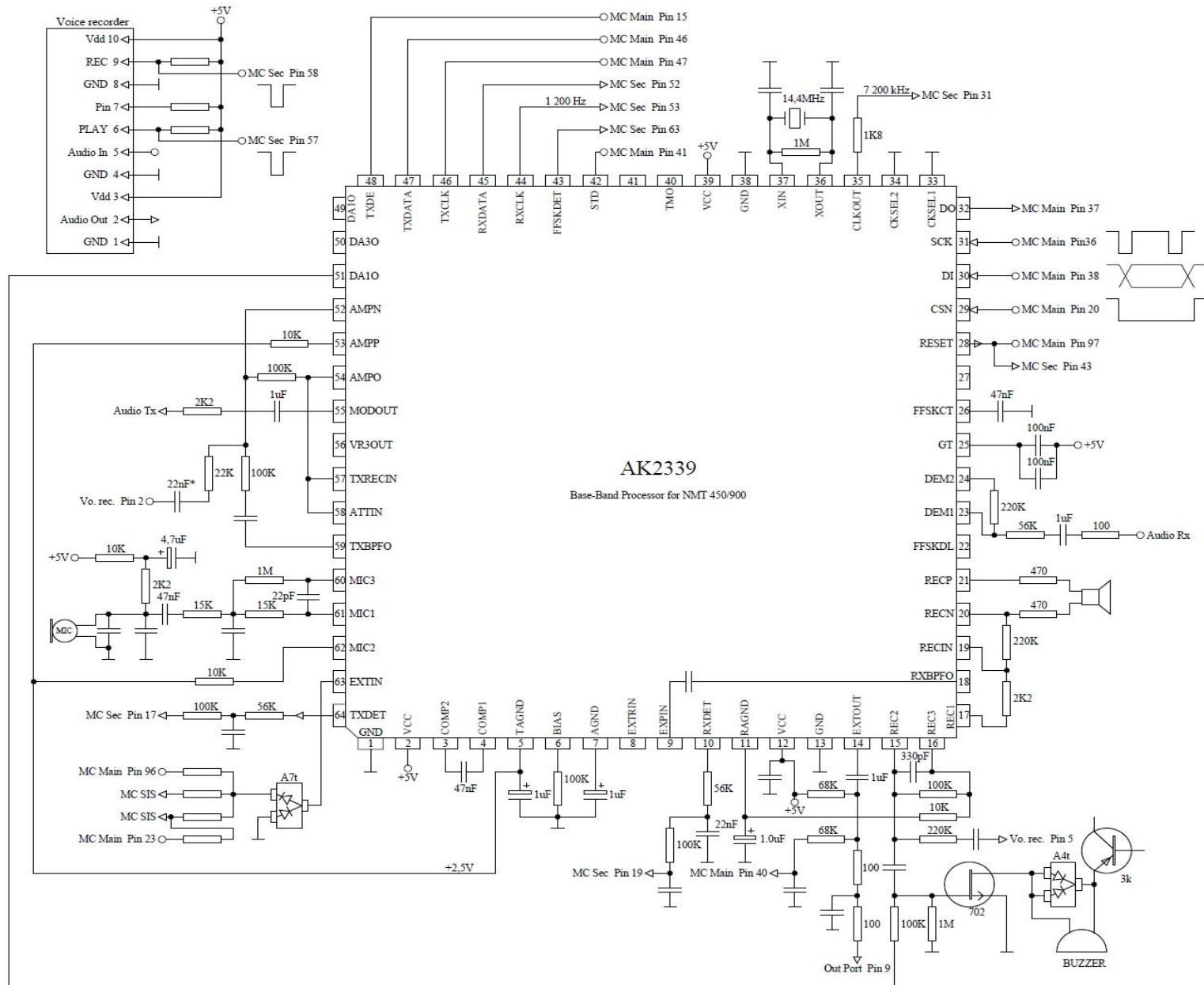
CSN  
SCK  
DI

16bit SPI	
first 8 bits	last 8 bits
Address	D7:D0

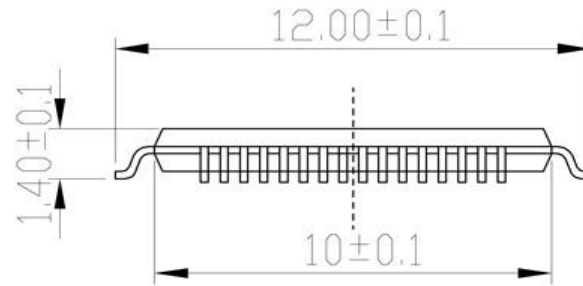
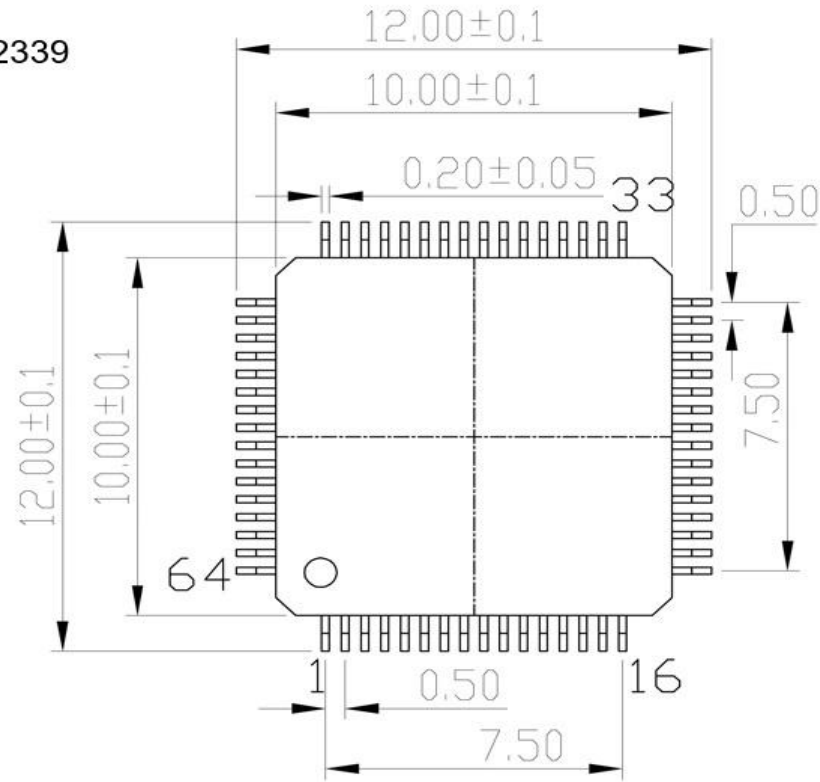
			DTMF HIGH FREQ		DTMF LOW FREQ	
0	0x00 0x37	0x01 0x4F				
1	0x00 0x3D	0x01 0x6B	1633 Hz	0x00 0x2D	941 Hz	0x01 0x4F
2	0x00 0x37	0x01 0x6B	1477 Hz	0x00 0x32	852 Hz	0x01 0x57
3	0x00 0x32	0x01 0x6B	1336 Hz	0x00 0x37	770 Hz	0x01 0x60
4	0x00 0x3D	0x01 0x60	1209 Hz	0x00 0x3D	697 Hz	0x01 0x6B
5	0x00 0x37	0x01 0x60				
6	0x00 0x32	0x01 0x60				
7	0x00 0x3D	0x01 0x57				
8	0x00 0x37	0x01 0x57				
9	0x00 0x32	0x01 0x57				
A		0x01 0x6B				
B		0x01 0x60				
C		0x01 0x57				
D		0x01 0x4F				
*	0x00 0x3D	0x01 0x4F				
#	0x00 0x32	0x01 0x4F				







AK2339



Beep

	0000 0000 = 00h - Power ON		
0xx0 01xx	0000 0100 = 04h - Power ON		
	1000 1111 = 8Fh		
	0000 1000 = 08h		
	0000 1111 = 0Fh		
1111 x000	1111 0000 = F0h		
	0111 0011 = 73h		
	0011 1010 = 3Ah		
00x0 x0x1	0000 0001 = 01h		
	1000 1000 = 88h		
	0000 1001 = 09h		
	0001 0011 = 13h		
x00x 01x1	0000 0101 = 05h power ON	<u>POWERMODE</u>	DA1 PWR ON
			DA2 PWR ON
			DA3 PWR ON