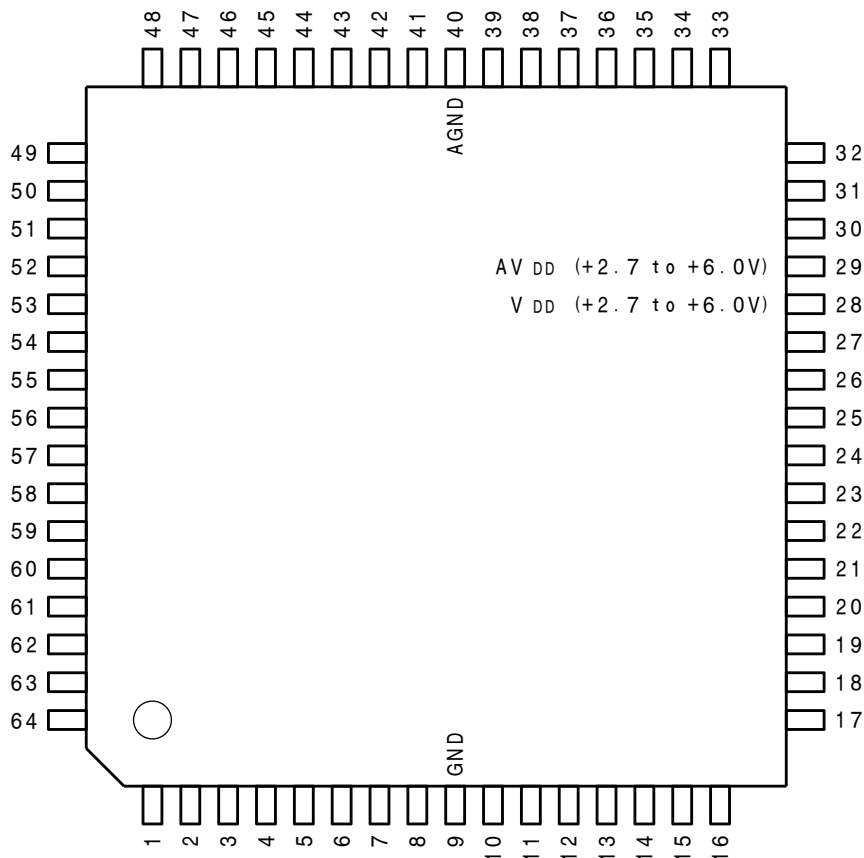

C-MOS 4-BIT SINGLE CHIP MICROCOMPUTER WITH MASK ROM AND EEPROM
-TOP VIEW-

(AVDD = VDD = +2.7 to +6.0V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	P43	17	I/O	PT00/P20	33	I	AN6	49	I/O	P83
2	I/O	P42	18	I/O	$\overline{\text{MAT}}/\text{P103}$	34	I	AN5	50	I/O	P82
3	I/O	P41	19	I/O	$\overline{\text{MAZ}}/\text{P102}$	35	I	AN4	51	I/O	P81
4	I/O	P40	20	0	$\overline{\text{MAT}}/\text{P101}$	36	I	AN3/P113	52	I/O	P80
5	I/O	P33	21	0	$\overline{\text{MAR}}/\text{P100}$	37	I	AN2/P112	53	I/O	P73/KR7
6	I/O	P32	22	I	$\overline{\text{RESET}}$	38	I	AN1/P111	54	I/O	P72/KR6
7	I/O	P31	23	I	X1	39	I	AN0/P110	55	I/O	P71/KR5
8	I/O	P30	24	-	X2	40	-	AGND	56	I/O	P70/KR4
9	-	GND	25	-	IC	41	I	T10/P13	57	I/O	P63/KR3
10	I/O	SB1/SI/P03	26	I	XT1	42	I	P12/INT2	58	I/O	P62/KR2
11	I/O	SB0/SO/P02	27	-	XT2	43	I	P11/INT1	59	I/O	P61/KR1
12	I/O	$\overline{\text{SCK}}/\text{P01}$	28	-	VDD	44	I	P10/INT0	60	I/O	P60/KR0
13	I	INT4/P00	29	-	AVDD	45	I/O	P93	61	I/O	P53
14	I/O	BUZ/P23	30	I	AVREF+	46	I/O	P92	62	I/O	P52
15	I/O	PCL/P22	31	I	AVREF-	47	I/O	P91	63	I/O	P51
16	I/O	PPO/P21	32	I	AN7	48	I/O	P90	64	I/O	P50

23	X1	P30	8
24	X2	P31	7
		P32	6
26	XT1	P33	5
27	XT2		
		P40	4
25	IC	P41	3
		P42	2
39	AN0/P110	P43	1
38	AN1/P111		
37	AN2/P112	P50	64
36	AN3/P113	P51	63
35	AN4	P52	62
34	AN5	P53	61
33	AN6		
32	AN7	P60/KR0	60
		P61/KR1	59
44	P10/INT0	P62/KR2	58
43	P11/INT1	P63/KR3	57
42	P12/INT2		
41	P13/TI0	P70/KR4	56
		P71/KR5	55
30	AV REF +	P72/KR6	54
31	AV REF -	P73/KR7	53
22	RESET	P80	52
		P81	51
21	MAR/P100	P82	50
20	MAI/P101	P93	49
19	MAZ/P102		
18	MAT/P103	P90	48
		P91	47
17	P20/PT00	P92	46
16	P21/PPO	P93	45
15	P22/PCL		
14	P23/BUZ		
13	P00/INT4		
12	P01/SCK		
11	P02/S0/SB0		
10	P03/S1/SB1		

PORT

P00-P03	; PORT 0	IN/OUT
P10-P13	; PORT 1	IN
P20-P23	; PORT 2	IN/OUT
P30-P33	; PORT 3	IN/OUT
P40-P43	; PORT 4	IN/OUT
P50-P53	; PORT 5	IN/OUT
P60-P63	; PORT 6	IN/OUT
P70-P73	; PORT 7	IN/OUT
P80-P83	; PORT 8	IN/OUT
P90-P93	; PORT 9	IN/OUT
P100-P103	; PORT 10	IN/OUT
P110-P113	; PORT 11	IN

OTHERS

AN0-AN7	; ANALOG 0-7	IN
AV REF +	; ANALOG REFERENCE (+)	IN
AV REF -	; ANALOG REFERENCE (-)	IN
BUZ	; BUZZER	CLOCK OUT
INT0, 1, 4	; EXTERNAL VECTORED INTERRUPT 0, 1, 4	IN
INT2	; EXTERNAL TEST 2	IN
KR0-KR7	; KEY RETURN 0-7	IN
MAI	; INTEGRATION CONTROL (MFT A/D MODE)	OUT
MAR	; REFERENCE INTEGRATION CONTROL	OUT
	(MFT A/D MODE)	
MAT	; EXTERNAL COMPARE TIME	IN/OUT
	(MFT A/D MODE)	
MAZ	; AUTOZERO CONTROL (MFT A/D MODE)	OUT
PCL	; PROGRAMMABLE	CLOCK OUT
PPO	; PROGRAMMABLE PULSE (MFT TIMER MODE)	OUT
PT00	; PROGRAMMABLE	TIMER 0 OUT
RESET	; RESET	IN
SB0, 1	; SERIAL BUS 0, 1	IN/OUT
SCK	; SERIAL	CLOCK IN/OUT
S0	; SERIAL	OUT
S1	; SERIAL	IN
TI0	; TIMER 0	IN
X1, 2	; MAIN SYSTEM CLOCK OSCILLATION 1, 2	IN
XT1, 2	; SUB SYSTEM CLOCK OSCILLATION 1, 2	IN

