

AC CHARACTERISTICS

Number	Symbol	Parameter	100 pF	200 pF	500 pF	1 nF	2 nF	5 nF	10 nF
1	t _{CK}	Clock Cycle Time	400	[1]	250	[1]	165	2000	65 2000
2	t _{CKH}	Clock Width (High)	170	2000	105	2000	65	2000	65 2000
3	t _{CKL}	Clock Width (Low)	170	2000	105	2000	65	2000	65 2000
4	t _{TC}	Clock Fall Time	30	30	30	30	20	20	20
5	t _{RC}	Clock Rise Time	30	30	30	30	20	20	20
6	t _{CS(9)}	CE #A, C/D to RD, WRD, CS(9) Setup Time	60	60	60	50	50	50	50
7	t _{TH}	Any Read Times for Specified Setup Time	0	0	0	0	0	0	0
8	t _{RD(9)}	RD, WRD to Clock + Setup Time	118	118	118	70	70	70	70
9	t _{RD(10)}	RD, WRD to Data Out Delay	430	380	300	300	300	300	300
10	t _{RD(11)}	RD, WRD to Data Out Setup Time	180	110	70	70	70	70	70
11	t _{RD(12)}	Data In to Clock + Setup Time	50	60	40	40	40	40	40
12	t _{RD(13)}	RD, WRD to Data Out Delay (TRACK Cycle)	210	80	70	70	70	70	70
13	t _{RD(14)}	RD to Clock + Setup Time (RT Cycle)	0	0	0	0	0	0	0
14	t _{RD(15)}	RD to Clock + Setup Time (RT Cycle)	0	0	0	0	0	0	0
15	t _{RD(16)}	RD to RD + Delay (Interrupt Immediately Preceding RT #)	0	0	0	0	0	0	0
16	t _{RD(17)}	RD to RD + Delay (Low ED Decodes)	140	140	140	100	100	100	100
17	t _{RD(18)}	RD to RD + Delay	180	180	130	120	120	120	120
18	t _{RD(19)}	RD to RD + Delay (Low ED Decodes)	210	180	180	150	150	150	150
19	t _{RD(20)}	RD to RD + Delay (To Address)	220	200	200	170	170	170	170
20	t _{RD(21)}	Clock to RD + Delay	200	200	180	170	170	170	170
21	t _{RD(22)}	Clock to RD + Delay	180	140	140	120	120	120	120
22	t _{RD(23)}	RD + Delay	180	180	180	120	120	120	120
23	t _{RD(24)}	RD + Delay (To Address)	220	220	220	150	150	150	150
24	t _{RD(25)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
25	t _{RD(26)}	RD to RD + Delay (Phase 1)	280	280	220	220	220	220	220
26	t _{RD(27)}	RD to RD + Delay (Phase 2)	200	200	210	190	190	190	190
27	t _{RD(28)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
28	t _{RD(29)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
29	t _{RD(30)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
30	t _{RD(31)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
31	t _{RD(32)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
32	t _{RD(33)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
33	t _{RD(34)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
34	t _{RD(35)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
35	t _{RD(36)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
36	t _{RD(37)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
37	t _{RD(38)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
38	t _{RD(39)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
39	t _{RD(40)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
40	t _{RD(41)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
41	t _{RD(42)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
42	t _{RD(43)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
43	t _{RD(44)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
44	t _{RD(45)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
45	t _{RD(46)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
46	t _{RD(47)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
47	t _{RD(48)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
48	t _{RD(49)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
49	t _{RD(50)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
50	t _{RD(51)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
51	t _{RD(52)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
52	t _{RD(53)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
53	t _{RD(54)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
54	t _{RD(55)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
55	t _{RD(56)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
56	t _{RD(57)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
57	t _{RD(58)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
58	t _{RD(59)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
59	t _{RD(60)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
60	t _{RD(61)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
61	t _{RD(62)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
62	t _{RD(63)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
63	t _{RD(64)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
64	t _{RD(65)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
65	t _{RD(66)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
66	t _{RD(67)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
67	t _{RD(68)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
68	t _{RD(69)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
69	t _{RD(70)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
70	t _{RD(71)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
71	t _{RD(72)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
72	t _{RD(73)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
73	t _{RD(74)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
74	t _{RD(75)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
75	t _{RD(76)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
76	t _{RD(77)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
77	t _{RD(78)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
78	t _{RD(79)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
79	t _{RD(80)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
80	t _{RD(81)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
81	t _{RD(82)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
82	t _{RD(83)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
83	t _{RD(84)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
84	t _{RD(85)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
85	t _{RD(86)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
86	t _{RD(87)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
87	t _{RD(88)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
88	t _{RD(89)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
89	t _{RD(90)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
90	t _{RD(91)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
91	t _{RD(92)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
92	t _{RD(93)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
93	t _{RD(94)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
94	t _{RD(95)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
95	t _{RD(96)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
96	t _{RD(97)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
97	t _{RD(98)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
98	t _{RD(99)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
99	t _{RD(100)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
100	t _{RD(101)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
101	t _{RD(102)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
102	t _{RD(103)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
103	t _{RD(104)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
104	t _{RD(105)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
105	t _{RD(106)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
106	t _{RD(107)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
107	t _{RD(108)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
108	t _{RD(109)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
109	t _{RD(110)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
110	t _{RD(111)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
111	t _{RD(112)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
112	t _{RD(113)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180
113	t _{RD(114)}	RD to RD + Delay (Phase 1)	200	200	180	180	180	180	180
114	t _{RD(115)}	RD to RD + Delay (Phase 2)	200	200	180	180	180	180	180