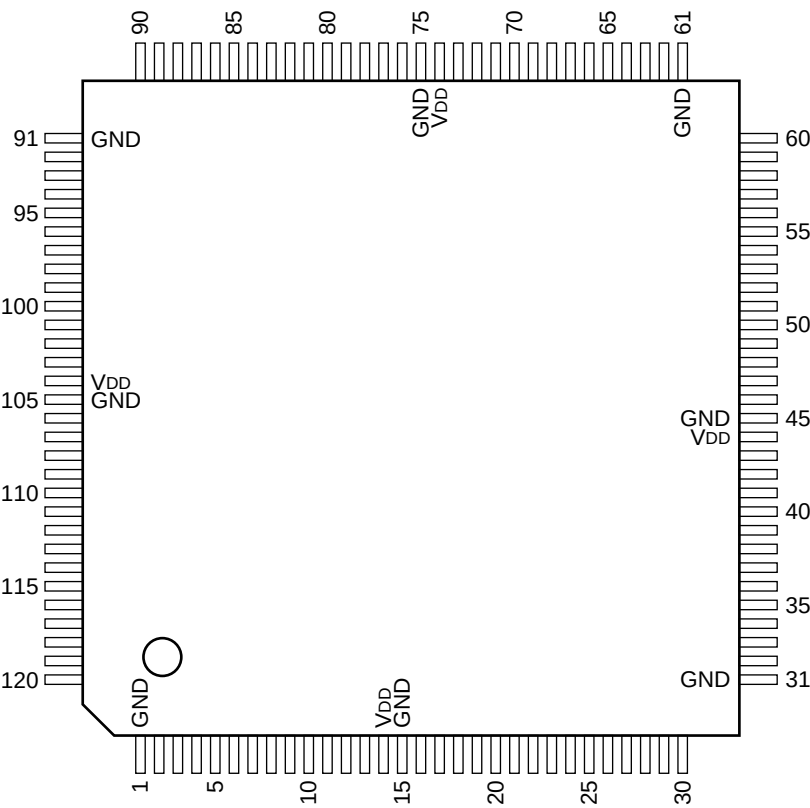


C-MOS DIGITAL Y/C SEPARATOR & CHROMA DECODER

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	GND	31	—	GND	61	—	GND	91	—	GND
2	O	PEW	32	I	DO9	62	O	YO2	92	O	BO1
3	O	PES	33	I	DO8	63	O	YO3	93	O	BO0
4	I	BI9	34	I	DO7	64	O	YO4	94	O	RO9
5	I	BI8	35	I	DO6	65	O	YO5	95	O	RO8
6	I	BI7	36	I	DO5	66	I	OE	96	I	HOD1
7	I	BI6	37	I	DO4	67	I	RND	97	I	HOD2
8	I	BI5	38	I	DO3	68	I	B67	98	I	HOD3
9	I	BI4	39	I	DO2	69	I	CO	99	I	HOD4
10	I	BI3	40	I	DO1	70	O	YO6	100	O	RO7
11	I	BI2	41	I	DO0	71	O	YO7	101	O	RO6
12	I	BI1	42	I	MRST	72	O	YO8	102	O	RO5
13	I	BI0	43	O	DRST	73	O	YO9	103	O	RO4
14	—	VDD	44	—	VDD	74	—	VDD	104	—	VDD
15	—	GND	45	—	GND	75	—	GND	105	—	GND
16	O	BCEW	46	I	DI9	76	O	BO9	106	O	RO3
17	O	BCES	47	I	DI8	77	O	BO8	107	O	RO2
18	O	RCEW	48	I	DI7	78	O	BO7	108	O	RO1
19	O	RCES	49	I	DI6	79	O	BO6	109	O	RO0
20	I	RI9	50	I	DI5	80	I	TMOD0	110	I	CLP
21	I	RI8	51	I	DI4	81	I	TMOD1	111	I	CBLK
22	I	RI7	52	I	DI3	82	I	TMOD2	112	I	YISC
23	I	RI6	53	I	DI2	83	I	TMOD3	113	I	HBLK
24	I	RI5	54	I	DI1	84	I	TMOD4	114	I	BPF
25	I	RI4	55	I	DI0	85	I	PM0	115	I	BW
26	I	RI3	56	I	CMOD2	86	I	PM1	116	I	LALTI
27	I	RI2	57	I	CMOD1	87	O	BO5	117	O	LALTO
28	I	RI1	58	I	CMOD0	88	O	BO4	118	I	PH1
29	I	RI0	59	O	YO0	89	O	BO3	119	I	PH0
30	I	HIZ	60	O	YO1	90	O	BO2	120	I	CLK

		80	81	82	83	84	
29	RI0	TMOD0	TMOD1	TMOD2	TMOD3	TMOD4	YO0 59
28	RI1						YO1 60
27	RI2						YO2 62
26	RI3						YO3 63
25	RI4						YO4 64
24	RI5						YO5 65
23	RI6						YO6 70
22	RI7						YO7 71
21	RI8						YO8 72
20	RI9						YO9 73
13	BI0						RO0 109
12	BI1						RO1 108
11	BI2						RO2 107
10	BI3						RO3 106
9	BI4						RO4 103
8	BI5						RO5 102
7	BI6						RO6 101
6	BI7						RO7 100
5	BI8						RO8 95
4	BI9						RO9 94
41	DO0						BO0 93
40	DO1						BO1 92
39	DO2						BO2 90
38	DO3						BO3 89
37	DO4						BO4 88
36	DO5						BO5 87
35	DO6						BO6 79
34	DO7						BO7 78
33	DO8						BO8 77
32	DO9						BO9 76
55	DI0						RCES 19
54	DI1						RCEW 18
53	DI2						
52	DI3						BCES 17
51	DI4						BCEW 16
50	DI5						
49	DI6						PES 3
48	DI7						PEW 2
47	DI8						
46	DI9						DRST 43
112	VISC						
120	CLK						
	CMOD0	58					
	CMOD1	57					
	CMOD2	56					
	CBLK	111					
	CLP	110					
	HBLK	113					
	RND	67					
	OE	66					
	B67	68					
	BPF	114					
	BW	115					
	CO	69					
	HIZ	30					
	MRST	42					
	MOD1	96					
	MOD2	97					
	MOD3	98					
	MOD4	99					
	PH1	118					
	PH0	119					
	PM0	85					
	PM1	86					
	LALT1	116					
	LALT0	117					

INPUT

B67	; CORRELATION DETECT SENSITIVITY SELECT (H ; 6 BITS/L ; 7 BITS)
BI0 - BI9	; B-Y DATA (COMPONENT MODE)
BPF	; L ; BAND PASS FILTER SELECT
BW	; COMPOSITE SIGNAL THROUGH OUT CONTROL
CBLK	; CHROMA BLANKING PULSE
CLK	; CLOCK
CLP	; CLAMP PULSE
*1) CMOD0 - CMOD2	; Y/C CORRECTION MODE SELECT
CO	; CHROMA DECODE CONTROL
DI0 - DI9	; 2H DELAY DATA (COMPOSITE MODE) FOR NTSC 4H DELAY DATA (COMPOSITE MODE) FOR PAL/PAL-M
DO0 - DO9	; 1H DELAY DATA (COMPOSITE MODE) FOR NTSC 2H DELAY DATA (COMPOSITE MODE) FOR PAL/PAL-M
HBLK	; H BLANKING PULSE
HIZ	; PULSE CONTROL
LALT1	; LINE ALTERNATE
*2) MODE1 - MODE4	; MODE SELECT
MRST	; RESET
OE	; OUTPUT ENABLE
PH0, PH1	; REFERENCE PHASE FOR CHROMA DECODE AND VLSC GENERATION
PM0, PM1	; PHASE SHIFT CONTROL
RI0 - RI9	; COMPOSITE DATA (COMPOSITE MODE) R-Y DATA (COMPONENT MODE) CHROMA DATA (CHROMA MODE)
RND	; OUTPUT ROUND OFF SELECT
TMOD0 - TMOD4	; TEST MODE/BPF STAGE SELECT
VISC	; VERTICAL INTERVAL SUB-CARRIER CONTROL

OUTPUT

BCES ; B-Y CLAMP ERROR SENSE
 BCEW ; B-Y CLAMP ERROR WIDTH
 BO0 - BO9 ; B-Y DATA (BO9 ; MSB)
 DRST ; EXTERNAL DELAY LINE RESET
 LALTO ; LINE ALTERNATE
 PES ; PHASE ERROR SENSE
 PEW ; PHASE ERROR WIDTH
 RCES ; R-Y CLAMP ERROR SENSE
 RCEW ; R-Y CLAMP ERROR WIDTH
 RO0 - RO9 ; R-Y DATA (RO9 ; MSB)
 YO0 - YO9 ; Y DATA (YO9 ; MSB)

*1)

CMOD2	CMOD1	CMOD0	MODE
0	0	0	0-1 FIX
0	0	1	1-2 FIX
0	1	0	0-1-2 FIX
0	1	1	BPF FIX
1	0	0	0-1/1-2/0-1 ADAPTIVE
1	0	1	0-1/1-2/1-2 ADAPTIVE
1	1	0	0-1/1-2/0-1-2 ADAPTIVE
1	1	1	0-1/1-2/0-1 BPF ADAPTIVE

0 ; LOW LEVEL 0-1 ; UPPER 2 LINE COMB FILTER
 1 ; HIGH LEVEL 1-2 ; LOWER 2 LINE COMB FILTER
 0-1-2 ; UPPER/LOWER 3 LINE COMB FILTER

*2)

MODE2	MODE1	MODE
0	0	PAL
0	1	PAL-M
1	0	SECAM
1	1	NTSC
MODE4	MODE3	MODE
0	0	COMPONENT
0	1	COMPOSITE
1	0	CTDM
1	1	CHROMA

0 ; LOW LEVEL
 1 ; HIGH LEVEL

