

Linear IC and Module Circuits (cont'd)

ECG1412 24-Pin DIP See Fig. L122
IC-VCR Video Signal Processor, $V_{CC} = 12\text{ V Typ}$

VID IN	1	24	VID AMP OUT
AGC THRESHOLD	2	23	SW CTRL SIG IN
ADJ NET	3	22	COLOR/MONO SW OUT
AGC DET BIAS NET	4	21	COLOR AMP IN
CLAMP KEY SIG	5	20	VCC
SYNC OUT	6	19	VID AMP IN
GROUND	7	18	VID AMP OUT
SYNC SEP BYPASS	8	17	VCC/RECORD
MOD FM OUT	9	16	CLAMP IN
CLIP LEVEL ADJ	10	15	PRE-EMPHASIS TC
CLIP TIME CONSTANT	11	14	FM MOD TIME CONSTANT
	12	13	

ECG1413 16-Pin DIP See Fig. L111
IC-VIF Video AGC Amp w/AFT, $V_{CC} = 12\text{ V Typ}$

IF INPUT	1	16	IF INPUT
RF AGC DELAY	2	15	IF AGC FILTER
RF AGC OUTPUT	3	14	GROUND
AFT OUTPUT 1	4	13	VIDEO OUTPUT
AFT OUTPUT 2	5	12	VCC
AFT TANK	6	11	AFT TANK
VIDEO TANK	7	10	VIDEO TANK
	8	9	

ECG1414 40-Pin DIP See Fig. L125
IC-VCR Digital Clock, Timer (CMOS), $V_{DD} = 12\text{ V Typ}$

AM	1	40	PM
10 HRS - b & c	2	39	1 HZ OUTPUT
HRS - f	3	38	12/24 HR SELECT
HRS - g	4	37	BLANKING CTRL
HRS - a	5	36	50/60 HZ SELECT
HRS - b	6	35	50/60 HZ INPUT
HRS - d	7	34	FORWARD/REVERSE
HRS - c	8	33	SLOW
HRS - e	9	32	FAST
10 MINS - f	10	31	MODE SEL 1
10 MINS - g	11	30	MODE SEL 2
10 MINS - a & d	12	29	MODE SEL 3
10 MINS - b	13	28	VSS
10 MINS - e	14	27	VDD
10 MINS - c	15	26	TIMER OFF INPUT
MINS - f	16	25	TIMER ON INPUT
MINS - g	17	24	TIMER OUTPUT
MINS - a	18	23	SLEEP OUTPUT
MINS - b	19	22	MINS - c
MINS - e	20	21	MINS - d

ECG1415 14-Pin DIP See Fig. L104
IC-TV Color Compensation Ckt, $V_{CC} = 12\text{ V Typ}$

AIC SW OUT	1	14	AIC IN
CHROMA IN	2	13	BLNK PULSE IN
CT ON/OFF SW	3	12	VCC
GROUND	4	11	AIC FILTER
CT SIGNAL OUT	5	10	CW OSC OUT
APC VOLTAGE IN	6	9	CW OSC IN
	7	8	

ECG1416 28-Pin DIP See Fig. L124
IC-Luminance Amp, Chroma Demod, $V_{CC} = 12\text{ V Typ}$

VCC	1	28	B OUTPUT
CLAMP FILTER	2	27	G OUTPUT
BRIGHTNESS CTRL	3	26	R OUTPUT
RESOLUTION CTRL	4	25	DEMO IN
LUMINANCE IN	5	24	BLANKING IN
PEAKING FILTER	6	23	OSCILLATOR
TINT CTRL	7	22	
AUTO SWITCH	8	21	GATE PULSE IN
COLOR CTRL	9	20	
CONTRAST CTRL	10	19	APC, ACC IN
CHROMA OUTPUT	11	18	KILLER FILTER
BYPASS	12	17	APC FILTER
CHROMA IN	13	16	ACC FILTER
GROUND	14	15	

ECG1417 24-Pin DIP See Fig. L122
IC-TV Deflection Signal Processor, $V_{CC} = 12\text{ V Typ}$

FLYBACK PULSE IN	1	24	SYNC SEP IN
HORIZ SAWTOOTH	2	23	NOISE DET IN
HORIZ AFC IN	3	22	SYNC SEP OUT
GROUND	4	21	VERT SYNC SEP
HORIZ AFC OUT	5	20	VCC 2
HORIZ HOLD	6	19	VERT HOLD
HORIZ OSC CAP	7	18	VERT OSC PULSE
VCC 1	8	17	VERT DRIVE OUT
NC	9	16	GROUND
HORIZ DRIVE OUT	10	15	VERT HEIGHT
X-RAY PROTECT RC NETWORK	11	14	VERT FEEDBACK IN
X-RAY PROTECT 2	12	13	VERT SAWTOOTH CAP

ECG1418 14-Pin DIP See Fig. L105
IC-TV Sound IF Amp, $V_{CC} = 12\text{ V Typ}$

DETECTOR OUTPUT	1	14	DC VOLUME CHARACTER SW
TUNING COIL	2	13	DC VOLUME CTRL
	3	12	VCC
MUTING	4	11	MPX OUTPUT
AF OUTPUT	5	10	GROUND
TONE CTRL	6	9	IF INPUT
AF INPUT	7	8	

ECG1419 14-Pin DIP See Fig. L104
IC-VCR Head Amp, $V_{CC} = 12\text{ V Typ}$

VCC	1	14	DAMPING CKT
BYPASS CAP	2	13	SW 1 OUTPUT
HEAD 1 INPUT	3	12	HEAD SW PULSE INPUT
GROUND	4	11	MIX AMP INPUT
HEAD 2 INPUT	5	10	MIX AMP OUTPUT
BYPASS CAP	6	9	SW 2 OUTPUT
VOLT STABILIZER	7	8	DAMPING CKT

ECG1421 9-Pin SIP See Fig. L41
IC-VCR Freq Divider, $V_{CC} = 15\text{ V Max}$

NC	1
TC	2
SETABCD	3
QB OUTPUT	4
GROUND	5
TOGGLE A/B	6
CLEARA	7
QD OUTPUT	8
VCC	9

ECG1422 28-Pin DIP HS See Fig. L154
IC-VCR Video Signal Processor, $V_{CC} = 12\text{ V Typ}$

CLAMP	1	28	CHROMA IN
VID SIG OUT	2	27	GROUND
VCC	3	26	NOISE CANCEL
EE/VID SIG IN	4	25	MUTING
DOC PULSE OUT	5	24	COLOR AMP IN
DOCK DETECT	6	23	FEEDBACK AMP
RF IN/COLOR	7	22	
VREF	8	21	VID SIG IN
RF IN/B-W	9	20	VCC
MIX AMP OUT	10	19	HI PASS LIM OUT
GATE AMP BIAS	11	18	HIGH PASS LIMITER
1H DELAY IN	12	17	
LIMITER	13	16	FM DEMOD
	14	15	FM DEMOD OUT
GROUND			

ECG1423 8-Pin SIP-HS See Fig. L77
ECG1424 8-Pin SIP-HS See Fig. L78
IC-AF PO, 5.7 W, $V_{CC} = 13.2\text{ V}$, $R_L = 4\ \Omega$

OUTPUT	1
VCC	2
BOOTSTRAP	3
GROUND	4
OFFSET ADJ	5
INPUT	6
NEG FB BYPASS	7
INVERTED INPUT	8