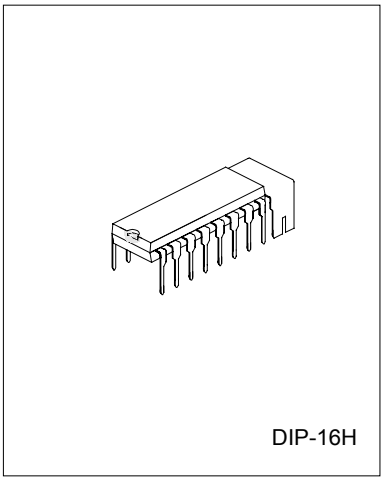
UTC PC1379 LINEAR INTEGRATED CIRCUIT

1-CHIP DEFECTION SYSTEM



DESCRIPTION

The UTC PC1379 consists of a vertical system, including function and a horizontal system, including an AFC function. It is for use in small size color TVs, B/W TV receivers and monitors.

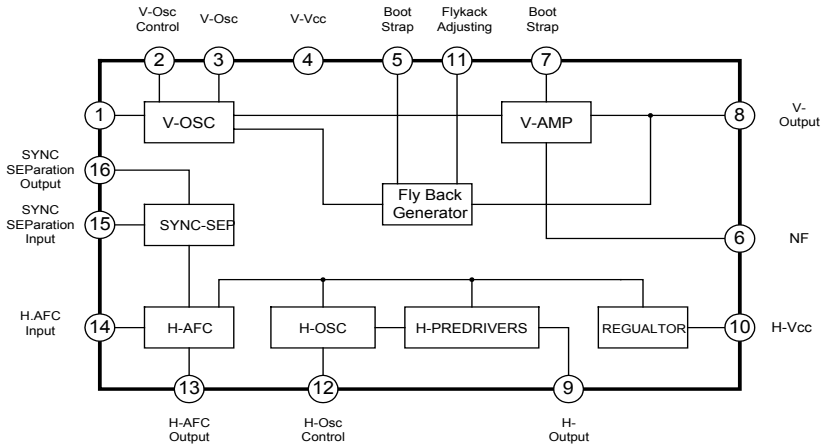
FEATURES

*Low power consumption, direct deflection coil driving capability(Fly-back voltage two times as high supply voltage is supplied during fly-back period only)
*Variable circuit of vertical retrace time on chip

FUNCTIONS

HORIZONTAL SECTION
*SYNC separation
*Horizontal Oscillators
*Horizontal Pre-drivers
*Horizontal AFCs
*Shunt Regulator(Typical 6.7V)
VERTICAL SECTION
*Vertical Oscillator
*Vertical Pre-drivers
*Vertical Output
*Fly-back generators

BLOCK DIAGRAM



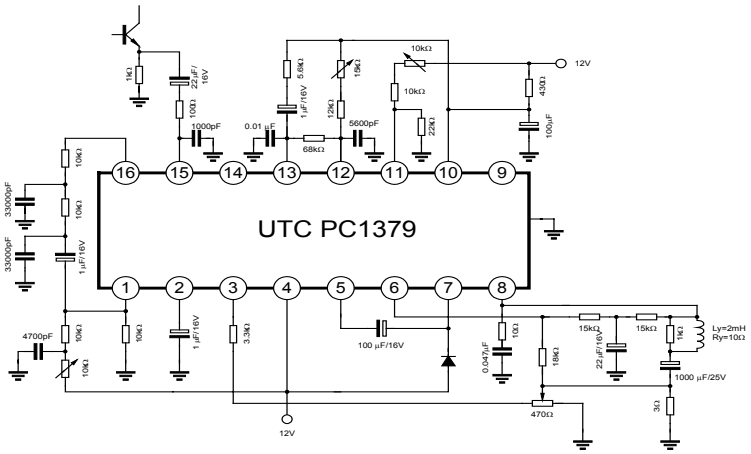
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

PARAMETER	SYMBOL	VALUE	UNIT
Vertical Supply Voltage	V_{CC}	15	V
Horizontal Supply Current	I_{10}	30	mA
Vertical Output Current	I_8	-500 ~ +500	ma peak
Horizontal Output Current(pulse)	I_9	-15 ~ +5	mA
Fly-back Generator Output Current	I_6	-500 ~ +500	ma peak
Operating Temperature	Topr	-20 ~ +75	°C
Storage Temperature	Tstg	-55 ~ +155	°C
Power Dissipation	P_D	1.3	W

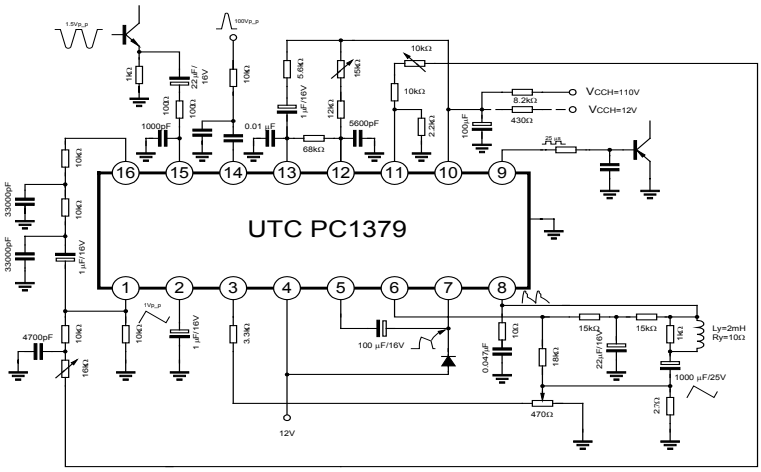
ELECTRONICAL CHARACTERISTICS(Ta=25°C,VCC=12V,I10=12mA, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Recommend Vertical Supply Voltage	Vcc		9.6	12	14	V
Horizontal Supplu Current	I10		6.5	12	18	mA
Vertical Supply Current	Icc(1)	SWA=2		85	100	mA
Vertical Supply Current	Icc(2)	No Input Signal, SWA=2	6	12	20	mA
Vertical Free Running Frequency	Fvo	SWA=1	55	60	65	Hz
Drift of Vertical Free Running Frequency	Fvo/Vcc	Fvo=Fvo(14.4V)-Fvo(9.6V) SWA=2		0.8	2	Hz
	Fvo/Ta	Fvo=Fvo(-20°C)-Fvo(70°C) SWA=2		1.5	2	Hz
Vertical Output Center Voltage	Vmid	SWA=2	5.3	5.8	6.3	V
Vertical Output Current	IB	SWA=2	450	500	550	mAp-p
Horizontal Supply Voltage	V10	SWB=2	6.2	6.7	7.2	V
Horizontal Free Running Frequency	FHO	I10=12mA SWB=1	15	15.75	16.5	KHZ
Horizontal Output Pulse Width	THPW	FHO=15. 75KHZ. SWB=2	23	25	27	US
Horizontal Output Current	I9	SWB=2	0.8	1.3	2.0	mA

TEST CIRCUIT



APPLICATION CIRCUIT



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