

LINEAR MONOLITHIC INTEGRATED CIRCUITS

IC's For VTR

Type No.	Function	Maximum Ratings (Ta=25°C)	Electrical Characteristics (Ta=25°C)							
			Item	Symbol	Condition	min.	typ.	max.	Unit	
AN6340 AN6344	Cylinder Servo Control Circuit	V _{CC} (V ₁₋₇)=14.4V AN6340 P _D =760mW AN6344 P _D =880mW T _{opr} =-20~+70°C T _{stg} =-40~+150°C	(V _{CC} =12V)							
			Total Circuit Current	I ₁		AN6340	27		56	V
						AN6344	33		65	V
			PG ⊖ Amp. Input Sensitivity	S ₂₄	V _{i23} =1Vp-p, 30Hz duty 4%		1			V _{O-P}
			PG ⊕ Amp. Input Sensitivity	S ₂₃	V _{i24} =1Vp-p, 30Hz duty 96%		1			V _{O-P}
			Cap PG Amp. Input Sensitivity	S ₃			50			mV _{O-P}
			VSS Amp. Input Sensitivity	S ₂₅			2			V _{O-P}
			REF Amp. Input Sensitivity	S ₂₆			3			V _{O-P}
			Rec./Playback Switch Sensitivity	S ₂₈			5			V
			Head-SW Output Voltage (H)	V _{OH1}	V _{i24} =2Vp-p, 30Hz duty 96% V _{i23} =2Vp-p, 30Hz duty 4%		9			V
			REC-CTL Amp. Output Voltage (H)	V _{OH2}			8			V
			S/H1 Output Voltage (H)	V _{OH3}			9			V
			S/H1 Output Voltage (L)	V _{OL1}					600	mA
			CTL Amp. Gain	G _v			62		70	dB
			FG Amp. Input Sensitivity	S ₁₄			100			mVp-p
			S/H2 Output Voltage (H)	V _{OH4}		AN6340	9			V
			AN6344	10			V			
S/H2 Output Voltage (L)	V _{OL2}		AN6340			0.6	V			
			AN6344			1.8	V			
AN6341	Capstan Servo Control Circuit	V _{CC} (V ₁₋₈)=14.4V P _D =470mW T _{opr} =-20~+70°C T _{stg} =-40~+150°C	(V _{CC} =12V)							
			Total Circuit Current	I ₁			16		34	mA
			PG Amp. Input Sensitivity	S ₁₅			50			mV _{O-P}
			Trapezoidal Input Sensitivity	S ₁₃			7			V _{O-P}
			Phase System Trapezoidal Reference Voltage	V _{REF1}			2.7		3.7	V
			S/H1 Output Voltage (H)	V _{OH1}			9			V
			S/H1 Output Voltage (L)	V _{OL1}					600	mV
			FG Amp. Input Sensitivity	S ₁₆			100			mV _{O-P}
			FF2 Switch Sensitivity	S ₂			5			V
			Speed System Trapezoidal Reference Voltage	V _{REF2}			2.7		3.7	V
			S/H2 Output Voltage (H)	V _{OH2}			9			V
S/H2 Output Voltage (L)	V _{OL2}					600	mV			
AN6342 △ AN6342N	Reference Frequency Divider Circuit	V _{CC} (V ₇₋₄)=12.5V I _{CC} =20mA (AN6342) I _{CC} =22.5mA (AN6342N) P _D =250mW (AN6342) P _D =280mW (AN6342N) T _{opr} =-20~+70°C T _{stg} =-40~+150°C	(V _{CC} =9V)							
			Total Circuit Current	I ₇	V ₇₋₄ =9V	AN6342	11.3		18.8	mA
						AN6342N	13		21	mA
			Divider Input Sensitivity	S ₃			400			mVp-p
			N/P Switch Input Sensitivity	S ₆			3			V
			Divider Output Level (H)	V _{OH5}			4.5			V
			Divider Output Level (L)	V _{OL5}					0.5	V
X'tal Osc. Output Amplitude	V _O	3.58MHz		2.1		2.8	Vp-p			

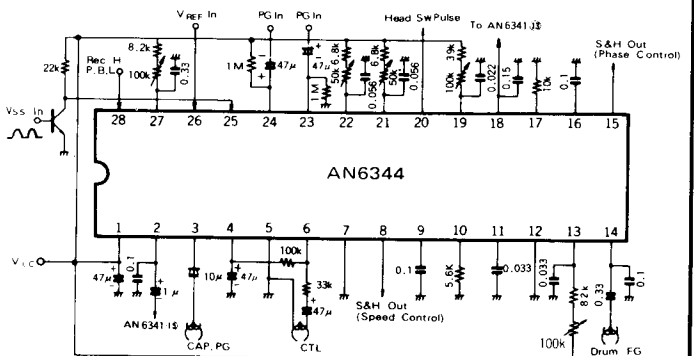
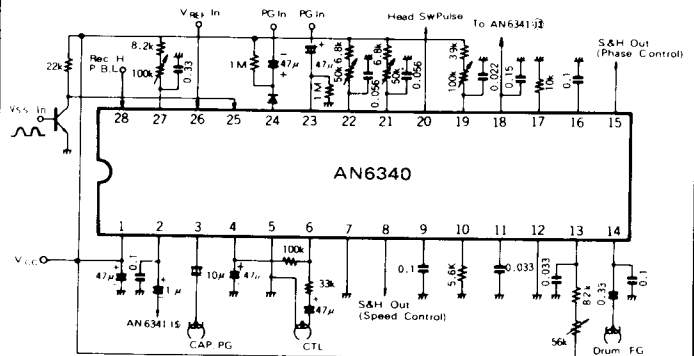
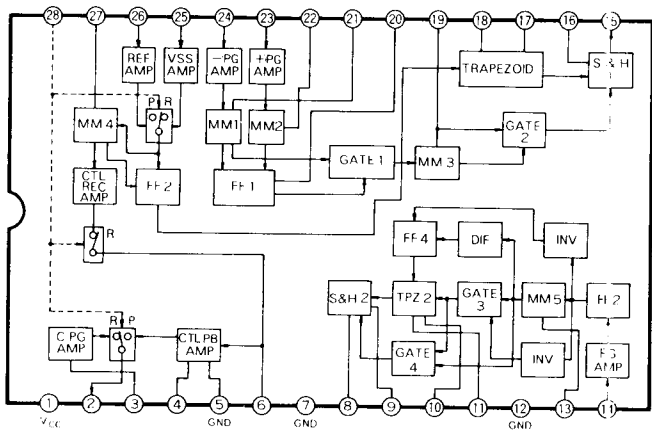
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Block Diagram

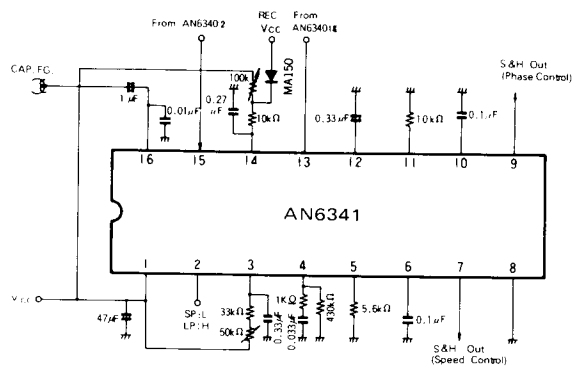
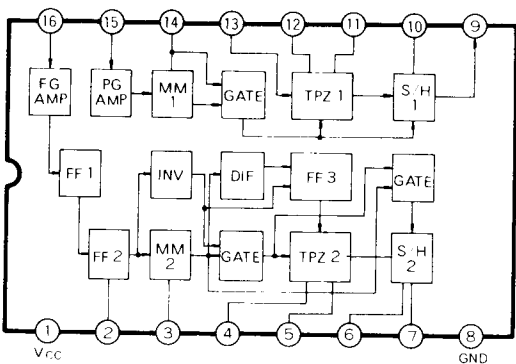
Application Circuit

AN6340, AN6344 (Package I—23,28—Lead Plastic DIL)

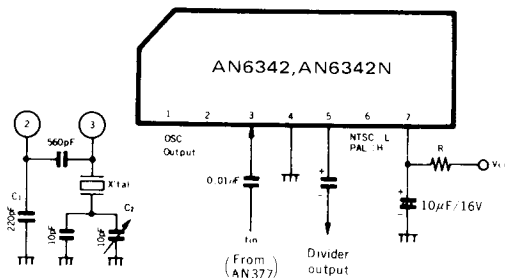
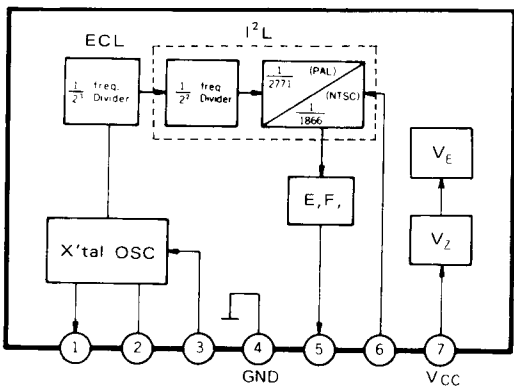


Resistance : Ω
Capacitance : F

AN6341 (Package I—18,16—Lead Plastic DIL)



AN6342, AN6342N (Package I—5, 7—Lead Plastic SIL)



	f (kHz)	1/Divider Ratio	Divider Output (Hz)
NTSC	3 579545	59712	59 9466
PAL	4 433618	88672	50 0002