

Active Device List :

Reference Designator	Device Type	Function
U6,10	comparator	DC switching
Q1,3	P-channel FET	DC switching
U1,7	AGC IC	audio level control
U4,9	op-amp	audio gain stage
D1,3	silicon diode	audio clipper
U2,8	op-amp	audio low pass filter
U3,11	PLL IC	audio subcarrier PLL controller
D2,4	varactor diode	audio subcarrier VCO tuning
D11,12	silicon diode	audio subcarrier limiting
U6,12	CMOS gate	audio subcarrier amplifier
U24	regulator IC	dc regulator
Q5,6,7,10	P-channel FET	DC switching
Q9,11	N-channel FET	DC switching
Q12	PNP silicon transistor	DC switching
D17	voltage reference IC	voltage reference
U21	op-amp	voltage clamp circuit
D15,19,18,9,20,16	schottky diode	DC switching
D7,13	schottky diode	DC switching
U20	switching regulator IC	step down regulator controller
U25	switching regulator IC	step up regulator controller
D8	silicon diode	DC switching
U13	microprocessor	system controller
U14	CMOS gate	control logic
U18	PLL IC	main carrier PLL controller
U23	video op-amp	video summing amplifier
U19	VCO	main carrier VCO
U17	RF amplifier IC	RF buffer amp
U15	RF amplifier IC	RF driver amp
Q13,14	PNP silicon transistor	driver amp current source
Q8	LD MOS FET	RF power amplifier
U22	CMOS gate	9.600 MHz system clock