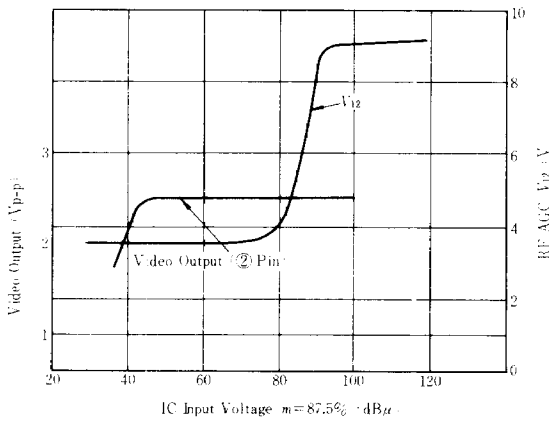


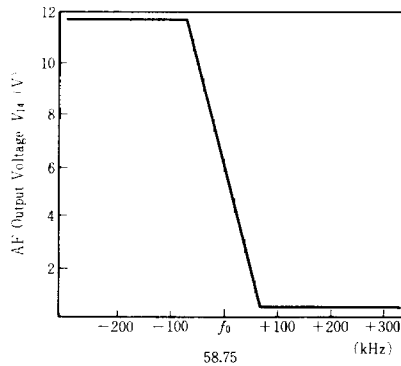
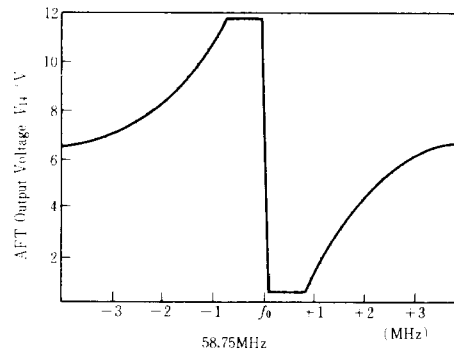
■ ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$, $V_s=12\text{V}$ unless otherwise specified)

Item	Symbol	Test Conditions	min.	typ.	max.	Unit
Supply Current	I_s		35	50	70	mA
Input Sensitivity	V_{in}	$f=58.75\text{MHz}$, $m=87.5\%$, $V_{out}=2.45V_{p-p}$	—	100	—	μV
Maximum Video Output	V_{video}	Carrier Zero to Sync. tip	2.08	2.45	2.82	V_{p-p}
Sync. Tip Voltage	V_{sync}	$f=58.75\text{MHz}$, $V_i=10\text{mV}$	3.4	3.9	4.4	V_{DC}
Maximum Input Voltage	$V_{in\text{ max.}}$	$DG=1\text{dB}$, $f_d=57\text{MHz}$, $f_a=56\text{MHz}$	—	100	—	mVrms
Noise Figure	NF	$f_o=57\text{MHz}$, $GR=30\text{dB}$	—	8	—	dB
Differential Gain	DG	$f=58.75\text{MHz}$, $m=87.5\%$	—	5	—	%
Differential Phase	DP		—	5	—	degree
Carrier Rejection	CR	$f=58.75\text{MHz}$, $V_o=2.80V_{p-p}$	40	—	—	dB
Frequency Response	f_c	-3dB point	—	10	—	MHz
Minimum RF AGC Voltage	$V_{12\text{ min.}}$		3.0	3.5	4.0	V
Maximum RF AGC Voltage	$V_{12\text{ max.}}$		8.5	9.0	9.5	V
Minimum AFC Output Voltage	$V_{14\text{ min.}}$		—	—	1.0	V
Maximum AFC Output Voltage	$V_{14\text{ max.}}$		11.0	—	—	V
AFC Control Sensitivity	f_s	$V_{14}=10V_{p-p}$, $f_o=58.75\text{MHz}$	—	150	300	kHz
Frequency Range of Saturated Voltage	f_r	$V_{14}>11.0\text{V}$ or $V_{14}<1\text{V}$	0.5	—	—	MHz
D. C Output Voltage (pin 14)	V_{AFT}	$f=52\text{MHz}$, $V_i=10\text{mV}$	5.5	6.5	7.5	V

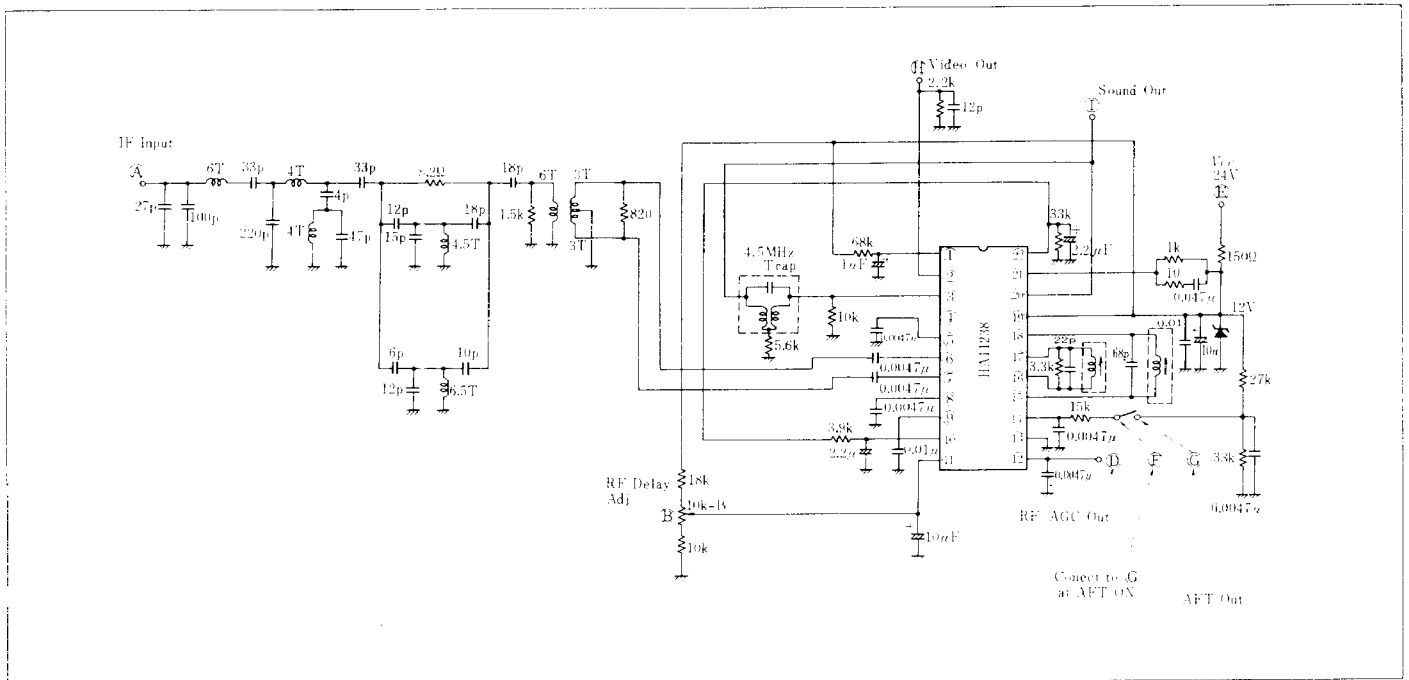
VIDEO OUTPUT & RF AGC vs. IC INPUT VOLTAGE



AFT OUTPUT VOLTAGE vs. FREQUENCY



■ CIRCUIT EXAMPLE



IF AGC VOLTAGE & RF AGC VOLTAGE vs. ANTENNA INPUT

