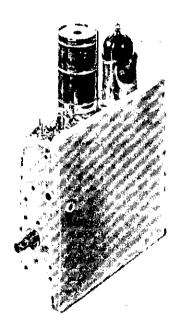
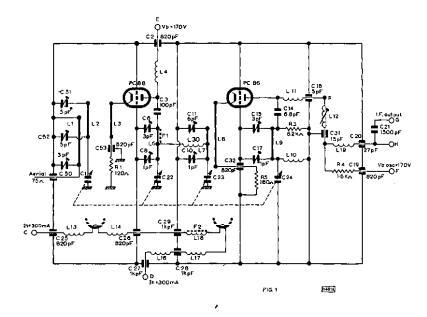
QUICK REFERENCE	DATA	
For use in domestic television	n receivers	
Frequency range (continuously tunable)	470 to 890	Mc/s
Intermediate frequencies		
picture	39.5	Mc/s
sound	33.5	Mc/s



GENERAL

The tuning range from 470 to 890Mc/s of this tuner covers the television bands IV and V. Tuning is by means of a variable capacitor through a geared spindle having a rotation angle of approximately 967 degrees.

A PC88 in a grounded-grid circuit is used as an r.f. amplifier, and a PC86 operates as a self-oscillating mixer.



Circuit diagram of tuner AT6360/02

TECHNICAL DATA

amplifier

VALVES

R.r. ampinier	FC00	
Self-oscillating mixer	PC86	
TYPICAL OPERATING DATA		
Oscillator supply	170	v
Preamplifier supply voltage	170	v
Total supply current (approx.)	25	mA
Valve heater current	300	mA
Valve heater voltage (each valve)	3.8	v

The position of the oscillator valve in the heater chain should be such that the r.m.s. heater-to-cathode voltage is less than 50V.

FREQUENCY RANGE	470 to 890	Mc/s
Spindle rotation angle (approx.)	967	deg
The forest dependency is approximately linear	(See page C2)	

The frequency dependency is approximately finear. (see page C2

GEARS

Ratio	1:5.4
Maximum permissible axial	
torque on tuner spindle	7.0 kg cm



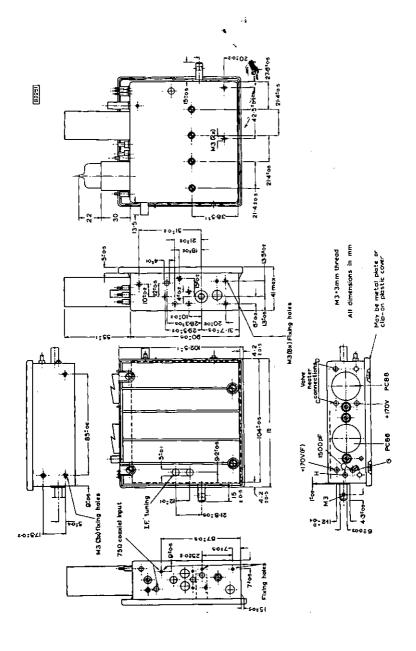
PC88

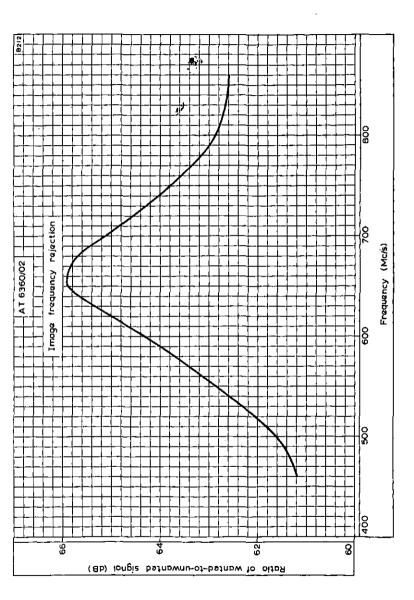
AT6360/02

39.5 Mc/s

Picture i.i.

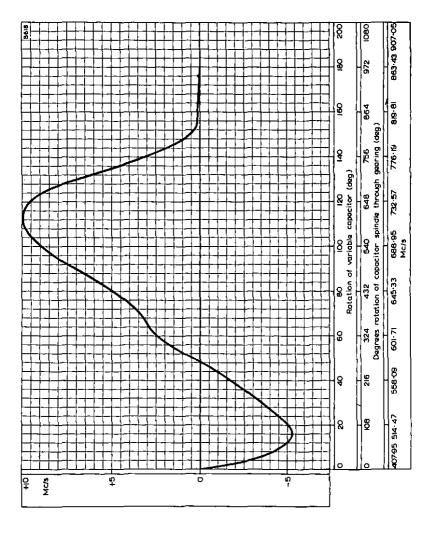
		. , –
Sound i.f.	33.5	Mc/s
The oscillator frequency is higher than the sig	mal frequency.	
The i.f. filter is adjusted to approximately 36	,5 Mc/s.	
AERIAL IMPEDANCE	75	Ω
STANDING WAVE RATIO	1:2	
R.F. BANDWIDTH at 3dB	10 to 18	Mc/s
GAIN		
For an i.f. bandwidth of 6Mc/s at 3dB		
AT 470Mc/s	>25	dB
860Mc/s	>20	dB
NOISE FIGURES		
AT 470Mc/s	<11	dB
650Mc/s	<13	dB
860Mc/s	<14	dB
IMAGE FREQUENCY REJECTION	Sec. r	page C1
Throughout bands IV and V	>58	dB
I.F. REJECTION	>60	dB
OSCILLATOR STABILITY		
At mains voltage variations of $\pm 10\%$	±150	kc/s
Between 2 minutes and 2 hours after		
switching-on and including the effect		
of an additional rise of ambient		
temperature of 35°C.	<500	kc/s
I.F. OUTPUT	Bottom capacitive of	oupling
†Total output capacitance including the		
coaxial connecting cable (approx.)	60	рF
RADIATION (before mounting)		
Total radiation at a distance of 10m	<450	$\mu V/m$
Chassis radiation at a distance of 10m	<50	$\mu V/m$
Oscillator voltage at i.f. output terminals	<1	mV
†This figure is dependent upon the bandwidth require	ed.	





TYPICAL IMAGE FREQUENCY REJECTION





TYPICAL TRACKING CURVE

