

6P17

OUTPUT PENTODE

Indirectly heated—for parallel operation

TENTATIVE

GENERAL

The 6P17 is a miniature based Power Output Pentode having a maximum anode dissipation of 4.75 watts and its Suppressor Grid internally tied to the cathode.

It has a maximum operating frequency at full ratings of 100 Mc/s and is intended for use in equipment powered from AC mains.

RATING

Heater Voltage	(volts)	V_h	6.3
Heater Current	(amps)	I_h	0.2
Maximum Anode Voltage	(volts)	V_a (max)	300
Maximum Screen Voltage	(volts)	V_{g2} (max)	275
Maximum Anode Dissipation	(watts)	P_a (max)	4.75*
Maximum Screen Dissipation	(watts)	P_{g2} (max)	0.8
Maximum Heater/Cathode Voltage	(volts)	V_{h-k} (max)	150†
Maximum Grid 1/Grid 2 Voltage (DC)	(volts)	V_{g1-g2} (max)	300
Maximum Grid 1/Cathode Voltage (DC)	(volts)	V_{g1-k} (max)	100
Maximum Mean Grid 1 Current	(mA)	I_{g1} (max)	3.3
Mutual Conductance	(mA/V)	g_m	2.6‡
Inner Amplification Factor		μ_{g1-g2}	12‡
Maximum Operation Frequency at full ratings	(Mc/s)	f (max)	100

* Valve unscreened with adequate ventilation.

† Cathode positive or negative to heater.

‡ Measured at $V_a = V_{g2} = 250$ V ; $I_a = 16$ mA ; $V_{g1} = -13.5$ V.

6P17

OUTPUT PENTODE

Indirectly heated—for parallel operation

TENTATIVE

INTER-ELECTRODE CAPACITANCES (pF)

Grid 1/Earth	C_{in}	4.25
Anode/Earth	C_{out}	6.5
Anode/Grid 1	C_{a-g1}	<0.3

Measured cold with an external screen but with holder capacity balanced out.

"Earth" denotes the remaining earthy potential electrodes, heater and shields connected to cathode.

DIMENSIONS

Maximum Overall Length	(mm)	54.5
Maximum Diameter	(mm)	19.0
Maximum Seated Height	(mm)	47.5
Approximate Nett Weight	(ozs)	$\frac{1}{4}$
Approximate Packed Weight	(ozs)	$\frac{1}{2}$

MOUNTING POSITION—Unrestricted.

TYPICAL OPERATION—Class A Power Output.

Anode Voltage	(volts)	V_a	250
Screen Voltage	(volts)	V_{g2}	250
Cathode Bias Resistance	(ohms)	R_k	740
Anode Current	(mA)	I_a	16
Screen Current	(mA)	I_{g2}	2.4
Power Output for 10% Total Harmonic Distortion	(watts)	P_{out}	1.4
Anode Load Impedance	(k Ω)	R_a	16
Input Voltage Swing (r.m.s.)	(volts)	V_{in}	5.3

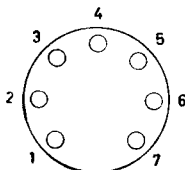
BULB—Clear

6P17**OUTPUT PENTODE**

Indirectly heated—for parallel operation

TENTATIVE

BASE—B7G



Viewed from free end of pins

VALVE HOLDER

Ediswan Clix VH337/7, VH437/7 and VH17/7 series.

CONNECTIONS

Pin 1	Grid 1	g1
Pin 2	Cathode, Grid 3	k,g3
Pin 3	Heater	h
Pin 4	Heater	h
Pin 5	Anode	a
Pin 6	No Connection	N.C.
Pin 7	Grid 2	g2