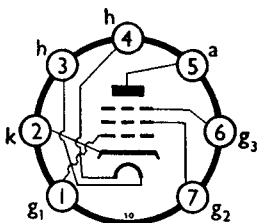




MINIATURE VARIABLE-MU R.F. PENTODE 0.1A INDIRECTLY HEATED

W107
OCTOBER, 1952

BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside
of base.

Base : B7G
Bulb : Tubular

Overall length : 49—55 mm.
Seated length : 43—49 mm.
Max. diameter : 19 mm.

RATING

	Pentode connection	Triode connection	
I_h	0.1	0.1	A
V_h	12.6 approx.	12.6 approx.	V
I_k	12 max.	12 max.	mA
V_a	250 max.	250† max.	V
V_{g2}	250 max.	—	V
P_a	2.5 max.	3† max.	W
P_{g2}	0.5 max.	—	W
μ	—	30	
r_a	500	10	k Ω
g_m	2.5	3	mA/V

† combined anode and screen grid rating.

at $V_a = V_{g2} = 200$, $V_{g1} = -2.5$

CAPACITANCES (of unscreened valve)

c_{a-all} 7 pF c_{g1-all} 4.2 pF c_{a-g1} 0.006 pF

TYPICAL OPERATION

Class A Amplifier. Pentode Connection

V_a	200	V
V_{g2}	200	V
V_{g3}	0	V
V_{g1}	-2.6	V
I_a	8	mA
I_{g2}	2	mA
R_k	270	Ω

The effective external grid to cathode resistance should not exceed 4 M Ω .

SCREENING

No internal or external screening is fitted to the valve.

MOUNTING

Any position.

MICROPHONY

Although this is of a very low order, equipment should be designed to minimise microphony.

VENTILATION

No special precautions.

