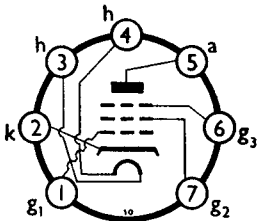




**MINIATURE  
VARIABLE-MU R.F. PENTODE  
0·1A INDIRECTLY HEATED**

**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
$\mu$	} at $V_a = V_{g2} = 200$ , } $V_{g1} = -2·5$ {	—	30
$r_a$		500	10
$g_m$		2·5	3
			k $\Omega$
			mA/V

† combined anode and screen grid rating.

**CAPACITANCES** (of unshielded 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	$\Omega$

The effective external grid to cathode resistance should not exceed 4 M $\Omega$ .

**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.

# W107

