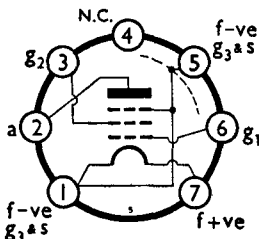




MINIATURE VARIABLE-MU R.F. PENTODE 1.4V DIRECTLY HEATED

W17
OCTOBER, 1951

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

V_f	1.4	V
I_f	0.05 approx.	A
V_a	90 max.	V
V_{g2}	67.5 max.	V
I_k	5.5 max.	mA
r_a	$\left\{ \begin{array}{l} 0.5 \\ 0.9 \end{array} \right.$	$M\Omega$
g_m		mA/V
} at $V_a=90$, $V_{g2}=67.5$, $V_{g1}=0$		

CAPACITANCES

c_{gl} —all	3.6 pF	c_a —all	7.5 pF	c_a — $g1$	0.01 pF
---------------	--------	------------	--------	--------------	---------

TYPICAL OPERATION

V_a	45	67.5	90	90	V
I_a	1.7	3.4	1.8	3.5	mA
V_{g2}	45	67.5	45	67.5	V
I_{g2}	0.7	1.5	0.65	1.4	mA
V_{g1}	0	0	0	0	V
* V_{g1}	-10	-16	-10	-16	V

*For $g_m=10 \mu A/V$.

The screen grid may be supplied from a 90 volt source via a series resistor but the screen grid voltage must not exceed 67.5 at zero control grid voltage.

FILAMENT OPERATION

When operating the filament from a mains supply, the voltage should be adjusted to 1.3 or the current to 47.5 mA mean. Under certain conditions, a suitable shunt resistor will be required.

SCREENING

An internal screen is fitted and is connected to pins 1 and 5.

MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED

Head Office : Marconi House, Chelmsford • Telephone : Chelmsford 3221 • Telegraphic Address : Expanse, Chelmsford

