

R.F. OUTPUT PENTODE

DL98

R.F. output pentode intended for use in portable equipment as a class 'C' r.f. amplifier, oscillator and frequency multiplier.

FILAMENT

	Series	Parallel	
V_f	2.5	1.25	V
I_f	165	330	mA

When the filament sections are series connected, the lower section of the filament should be shunted by a resistor to by-pass the cathode current of the upper section.

MOUNTING POSITION

Any

CAPACITANCES (measured without an external shield)

C_{a-g1}	< 160	mpF
C_{in}	4.6	pF
C_{out}	7.6	pF

CHARACTERISTICS

V_a	90	135	V←
V_{g2}	90	120	V←
I_a	15	30	mA
I_{g2}	1.0	1.8	mA
g_m	1.7	2.15	mA/V←
r_a	22	22	kΩ
μ_{g1-g2}	3.2	3.45	
V_{g1}	-9.9	-10	V

OPERATING CONDITIONS

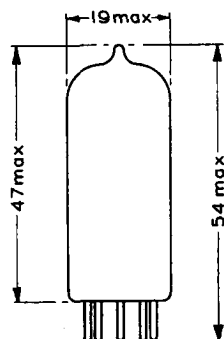
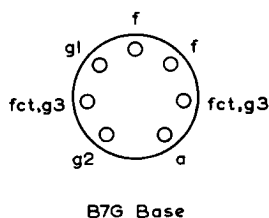
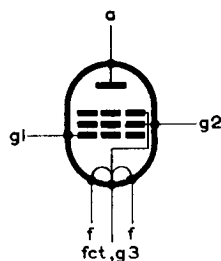
As class 'C' amplifier or oscillator

	†	
f	100	100 Mc/s
V_a	90	150 V
V_{g2}	90	135 V
V_{g1}	-18	-39 V
I_a	15	25 mA
I_{g2}	4.8	6.2 mA
I_{g1}	400	550 μA
P_{drive}	30	70 mW
P_{load}	0.45	1.25 W

†This condition represents operation at the absolute limit of V_a , V_{g2} and I_a

ABSOLUTE MAXIMUM RATINGS

V_a max.	150	V
p_a max.	3.0	W
V_{g2} max.	135	V
p_{g2} max.	1.1	W
$-V_{g1}$ max.	75	V
I_a max.	25	mA
I_{g1} max.	1.5	mA
R_{g1-k} max.	100	k Ω
I_k max.	32	mA



5485

All dimensions in mm