

# 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	$V \leftarrow$
$V_{g2}$	90	120	$V \leftarrow$
$I_a$	15	30	mA
$I_{g2}$	1.0	1.8	mA
$g_m$	1.7	2.15	mA/V $\leftarrow$
$r_a$	22	22	k $\Omega$
$\mu_{g1-g2}$	3.2	3.45	
$V_{g1}$	-9.9	-10	V

## OPERATING CONDITIONS

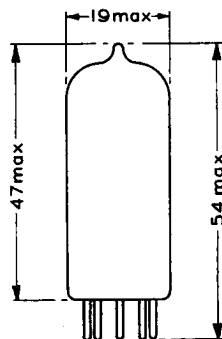
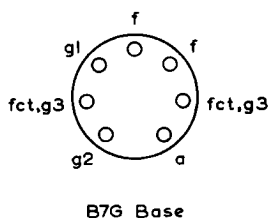
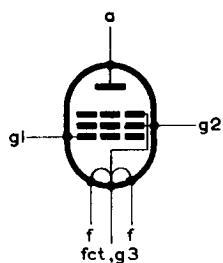
As class 'C' amplifier or oscillator

		†	
$f$	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	$\mu$ A
$P_{drive}$	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 $\Omega$
$I_k$ max.	32	mA



5485

All dimensions in mm