

# MINIATURE I.F. PENTODE

# DF96

Variable- $\mu$  pentode for use as an i.f. amplifier in battery operated receivers.

## FILAMENT

Suitable for d.c. operation from a series or parallel supply

	Series	Parallel	
$V_f$	1.3	1.4	V
$I_f$	24	25	mA

## CAPACITANCES

$C_{a-g1}$	<0.01	pF
$C_{in}$	3.3	pF
$C_{out}$	7.8	pF

## OPERATING CONDITIONS AS I.F. AMPLIFIER

$*V_b = V_d$	64	85	V
$R_{g2}$	0	39	k $\Omega$
$V_{g1}$	0	0	V
$V_{g2}$	64	64	V
$I_a$	1.65	1.65	mA
$I_{g2}$	550	550	$\mu$ A
$g_m$	850	850	$\mu$ A/V ←
$r_a$	0.7	1.0	M $\Omega$
$\mu_{g1-g2}$	18	18	
$V_{g1}(g_m = 10\mu\text{A/V})$	-4.1	-5.5	V
$R_{eq}$	14	14	k $\Omega$ ←

\*Based on line voltages of 67.5 and 90V decreased by the negative bias for the output valve.

## LIMITING VALUES

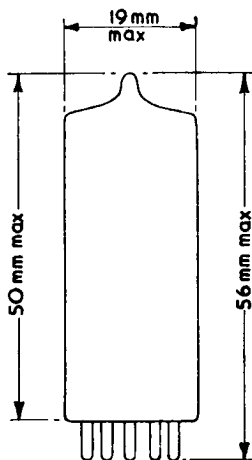
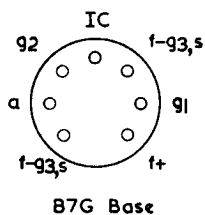
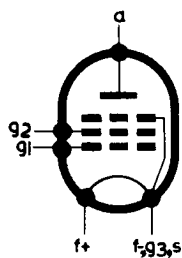
$V_b$ max. (absolute)	110	V
$V_a$ max.	90	V
$p_a$ max.	250	mW
$V_{g2}$ max.	90	V
$p_{g2}$ max.	100	mW
$I_k$ max.	2.2	mA
$R_{g1-k}$ max.	3.0	M $\Omega$
$V_{g1}$ max. ( $I_{g1} = +0.3\mu\text{A}$ )	0	V



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