

MINIATURE I.F. PENTODE

DF96

Variable- μ 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 Ω
V_{g1}	0	0	V
V_{g2}	64	64	V
I_a	1.65	1.65	mA
I_{g2}	550	550	μ A
g_m	850	850	μ A/V ←
r_a	0.7	1.0	M Ω
μ_{g1-g2}	18	18	
$V_{g1} (g_m = 10 \mu\text{A/V})$	-4.1	-5.5	V
R_{eq}	14	14	k Ω ←

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

LIMITING VALUES

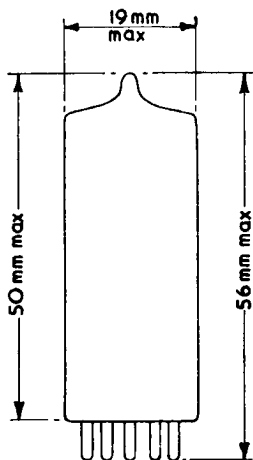
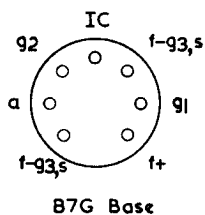
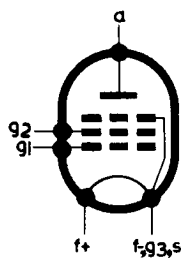
V_b max. (absolute)	110	V
V_a max.	90	V
p_a max.	250	mW
V_{g2} max.	90	V
p_{g2} max.	100	mW
I_k max.	2.2	mA
R_{g1-k} max.	3.0	M Ω
V_{g1} max. ($I_{g1} = +0.3 \mu\text{A}$)	0	V



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