SUBMINIATURE A.F. VOLTAGE AMPLIFYING PENTODE

DF66

Subminiature voltage amplifying pentode suitable for use in hearing-aids. It has a filament current of 15 mA and is primarily intended for use with an H.T. battery supply of 22.5 volts.

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$V_{\mathbf{f}}$	0.625	١
l _f	15	m/

MOUNTING POSITION

Any.

Note—Direct soldered connections to the leads of this valve must be at least 5 mm. from the seal and any bending of the valve leads must be at least 1.5 mm. from the seal.

CAPACITANCES (measured without external screen)

$C_{\mathbf{8-gl}}$	0.15	μμϜ
cin	1.6	μμF
Cout	2.2	μμF

CHARACTERISTICS

V _a	22.5	٧
V _{g2}	22.5	V
la"	50	μΑ
l _{g2}	15	μA
\tilde{V}_{g_1}	-1.05	` V
g m	100	μ A /V
ra	>2	MΩ
$\mu_{\mathbf{g}_{1}-\mathbf{g}_{2}}$	11.5	

OPERATING CONDITIONS AS RESISTANCE COUPLED A.F. AMPLIFIER (see circuit overleaf)

(a) With fixed b	ca vias
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$V_{\rm b}$	22.5	٧
R _a	1.0	MΩ
R _{gs}	2.0	ΜΩ
V _{g1}	0.625	٧
l _k	16	иA
V_{out}/V_{in}	33	•
Rout	5	MΩ

(b) With grid current biasing

biasing		4
$V_{\rm b}$	22.5	٧
R _a	1.0	МΩ
R_{g_2}	2.7	MΩ
	10	ΜΩ
${f R_{gl} \over f Z_s}$	Ó	
l _k	16	μA
$\vec{V}_{\mathtt{out}}/V_{\mathtt{in}}$	35	
Rout	5	ΜΩ

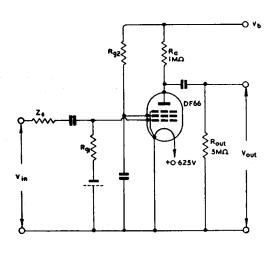
LIMITING VALUES

V _a max.	45	٧
V _{g2} max.	45	٧
l⊾ max.	100	uА

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Circuit of DF66 as Resistance Coupled A.F. Amplifier

