SUBMINIATURE A.F. VOLTAGE AMPLIFYING PENTODE

DF64

Subminiature voltage amplifying pentode suitable for use in hearing aids. It has a filament current of 10mA and is primarily intended for use with an h.t. battery supply of 15volts.

FI	L	Δ	м	E	N	T

V_{f}	0.62	٧
lr	10	mΑ

MOUNTING POSITION

Any

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

CAPACITANCES (measured without external shield)

c_{a-g_1}	< 0.2	ρF
c _{in}	1.8	pF
Cout	< 0.2 1.8 2.0	ρF

CHARACTERISTICS

V_a	15	٧
V_{g2}	15	V
l _a	50	μΑ
V_{q_1}	-0.75	` V
l _{g2}	17	Aμ
g m	90	μA/V
r _s	1.2	· MΩ
µg1_ §2	7.5	

OPERATING CONDITIONS AS RESISTANCE COUPLED A.F. AMPLIFIER (see circuit for component references)

With fixed bias

V_{b}	15	٧
Ra	2.2	$M\Omega$
R_{g2}	2.7	$M\Omega$
V_{g1}	-0.62	V
$\mathbf{I}_{\mathbf{k}}$	6.6	μA
Gain	27.4	dB
Rout	5.0	$M\Omega$

With grid current biasing (zero source impedance)

V _b	15	V
Ra	2.2	$M\Omega$
R_{u2}	4.7	$M\Omega$
R _{g1}	10	$M\Omega$
l _k	5.9	μA
Gain	28	ďB
Rout	5.0	$M\Omega$

LIMITING VALUES

Va max.	45	V
V _{g2} max.	45	٧
Ik max.	75	иA

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