

SUBMINIATURE R.F. PENTODE

DF61

R.F. Pentode for use in battery operated receivers.

FILAMENT

Suitable for d.c. operation only

V_f	1.25	V
I_f	25	mA

CAPACITANCES

C_{a-g1}	< 0.01	pF
C_{in}	3.1	pF
C_{out}	3.6	pF

CHARACTERISTICS

V_a	45	67.5	V
V_{g2}	45	67.5	V
V_{g1}	0	0	V
I_a	0.8	1.7	mA
I_{g2}	200	450	μ A
g_m	750	950	μ A/V
r_a	1.4	1.6	M Ω
μ_{g1-g2}	21	21	
V_{g1} (for 100:1 reduction in g_m)	-2.6	-4.0	V
R_{in} ($f=50$ Mc/s)	—	57	k Ω
R_{eq}	—	10	k Ω

OPERATING CONDITIONS AS A FREQUENCY CHANGER

V_a	45	67.5	V
V_{g2}	45	67.5	V
R_{g1-f}	100	100	k Ω
I_a	0.6	1.35	mA
I_{g2}	140	400	μ A
$V_{osc(r.m.s.)}$	3.0	4.0	V
I_{g1}	30	30	μ A
g_c	220	290	μ A/V
g_m (eff)	300	450	μ A/V
r_a	1.4	2.0	M Ω

LIMITING VALUES

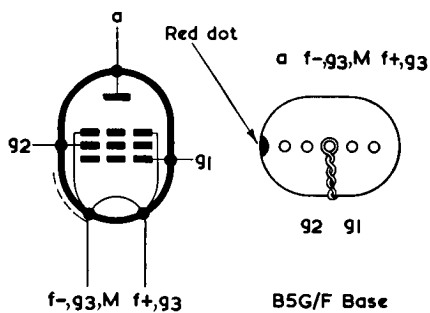
V_a max.	90	V
$V_{g2(b)}$ max.	90	V
V_{g2} max.	67.5	V
I_k max.	2.5	mA
V_{g1} ($I_{g1} = +0.3\mu$ A)	> 0	V

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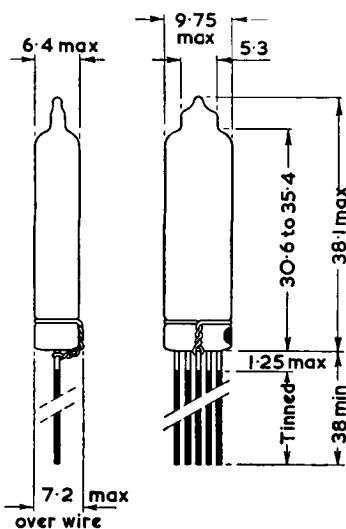
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2926



g₃ consists of two plates one being connected to lead 3 and the other to lead 5



All dimensions in mm