

*R.F. double triode primarily intended
for use in battery-operated
portable transmitters.*

FILAMENT

This valve is suitable for d.c. operation only.

Series. V_f applied across two sections in series between pins 1 and 7. V_g referred to pin 1.

Parallel. V_f applied across the two filament sections in parallel between pin 4 and pins 1 and 7 connected together.

V_g referred to pins 1 and 7 connected together.

	Series	Parallel	
V_f	2.8	1.4	V
I_f	0.11	0.22	A

For series filament operation a shunting resistor must be connected across one filament section, between pins 1 and 4 to by-pass the excess cathode current in this section. The value of the resistor should be such that the voltage across the shunted section equals that across the other section.

MOUNTING POSITION

Any

CAPACITANCES (measured without external shield)

$C_{a'-a''}$	0.32	$\mu\mu F$
C_{g-f} (each section)	0.9	$\mu\mu F$
C_{a-f} (each section)	1.0	$\mu\mu F$
C_{a-g} (each section)	3.2	$\mu\mu F$

CHARACTERISTICS (each section)

V_a	90	V
V_g	-2.5	V
I_a	3.7	mA
μ	15	
r_a	8.3	k Ω
g_m	1.8	mA/V

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OPERATING CONDITIONS AS PUSH PULL R.F. AMPLIFIER OR OSCILLATOR AT 40 Mc/s. (Intermittent operation)

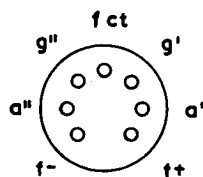
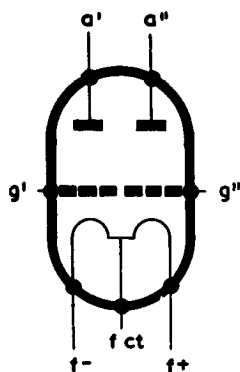
V_a	135	V
$*V_g$	-20	V
R_g	4	k Ω
R_k	570	Ω
$V_{in(pk)}$	2×45	V
I_a	2×15	mA
I_g (approx.)	2×2.5	mA
p_g (approx.)	0.2	W
P_{out} (approx.)	2	W

* Obtained from fixed supply, or by means of cathode or grid resistor of valve shown.

LIMITING VALUES (Intermittent operation)

V_a max.	135	V
V_g max.	-30	V
I_a max.	2×15	mA
I_g max.	2×2.5	mA
p_a max.	2×1	W

For continuous operation the above maximum current and power ratings must be reduced by 50%.



B7Q BASE

