

**TRANSMITTING VALVES AND
MERCURY VAPOUR RECTIFIERS**

Quick-heating double tetrode with an oxide coated filament. It is primarily intended for mobile applications and has a rated anode dissipation of 8 watts, the limiting frequency being 186 Mc/s.

**QQZ
04-15****FILAMENT**

Oxide coated, directly heated.

V_f	6.3	V
I_f	0.68	A
Heating time	2.0	Secs.

MOUNTING POSITION

Vertical—base upwards or downwards

CAPACITANCES

Each section

C_{a-g}	0.1	$\mu\mu\text{F}$
C_{g-f}	8	$\mu\mu\text{F}$
C_{a-f}	3	$\mu\mu\text{F}$

CHARACTERISTICSEach section (measured at $I_a = 20 \text{ mA}$)

g_m	2	mA/V
μ_{g1-g2}	9	

**OPERATING CONDITIONS AS PUSH-PULL
CLASS "C" R.F. AMPLIFIER OR OSCILLATOR**

	Continuous operation		Intermittent operation		
f	186	186	186	186	Mc/s
V_a	250	400	250	400	V
V_{g2}	175	200	175	200	V
V_{g1}	-70	-80	-70	-80	V
I_a	2×30	2×30	2×40	2×40	mA
I_{g2}	2×4	2×4	2×5	2×5	mA
I_{g1}	2×1.5	2×1.5	2×1.75	2×1.75	mA
$V_{in} (\text{pk})$	2×60	2×65	2×60	2×65	V
P_a	2×3	2×4.75	2×4	2×6.25	W
P_{out}	9	14.5	12	19.5	W
η	60	61	60	61	%
$\dagger P_{load}$	7.7	12.4	10.2	16.5	W

 $\dagger$ These figures assume a circuit efficiency of 85%**OPERATING CONDITIONS AS PUSH-PULL
CLASS "C" FREQUENCY TREBLER**

	$f = 62-186 \text{ Mc/s}$		$f = 33-100 \text{ Mc/s}$		
	Intermittent operation	Continuous operation	Intermittent operation	Continuous operation	
V_a	250	250	350	350	V
V_{g2}	200	200	200	200	V
V_{g1}	-180	-180	-180	-180	V
I_a	2×40	2×30	2×30	2×24	mA
I_{g2}	6	6	6	6	mA
I_{g1}	2×1.5	2×1.5	2×1.5	2×1.5	mA
P_{out}	5	3.75	6	4.8	W
$\ddagger P_{load}$	3.5	3	5	3.8	W

 $\ddagger$ These figures assume normal circuit efficiencies.

4 VALVE DATA H PREFERRED TYPES

H TRANSMITTING VALVES AND MERCURY VAPOUR RECTIFIERS

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04-15
(contd.)

LIMITING VALUES

Continuous operation

V_a max.	400	V
p_a max.	2×6	W
V_{g2} max.	250	V
p_{g2} max.	2×2	W
I_k max.	2×40	mA
i_k (pk) max.	2×160	mA
V_{g1} max.	-250	V
I_{g1} max.	2×5	mA
R_{g1-t} max. (each section)	0.5	M Ω
Max. operating frequency at full ratings	186	Mc/s
Max. temperature of base pins	80	$^{\circ}\text{C}$
Max. temperature of bulb	200	$^{\circ}\text{C}$

Intermittent operation (other limiting values as for continuous operation)

p_a max.	2×8	W
p_{g2} max.	2×2.5	W
I_k max.	2×50	mA
i_k (pk) max.	2×200	mA
Max. temperature of base pins	100	$^{\circ}\text{C}$
Max. temperature of bulb	250	$^{\circ}\text{C}$



BASE :
B8G

DIMENSIONS :
L=100 mm
D=32 mm

RGI-240A Mercury vapour rectifier

FILAMENT

V_f 4.0 V I_f 2.7 A approx.

LIMITING VALUES

Max. peak inverse voltage (150 c/s max.)	6,500	V
Max. peak anode current	1,250	mA
Max. mean anode current	250	mA
Voltage drop across valve	16 V approx.	
Ambient temperature	10 to 40	$^{\circ}\text{C}$
Condensed mercury temperature	25 to 65	$^{\circ}\text{C}$

