QQV07-40

Twin beam-tetrode rated to dissipate 20 W at each anode, and primarily intended for use as a Class "C" amplifier or oscillator at frequencies up to 250 Mc/s.

"Operating N	et should be read in lotes. Part I, Power e of the Handbook.	conjunction Valves, incl	with uded		
CATHODE			/		
Indirectly heat	ted for series or para Series	llel operation. Parallel			
$V_{\rm h}$	12.6	6/3	V		
l _h	1.25	2.5	Α		
MOUNTING POSITIO		pase down. plane of ano	des vertical		
CAPACITANCES (Each	Section)				
Cin	•	14.5	μμΕ		
Cout		7.0	μμΕ		
*C _{a-g1}	14::	<0.12	μμΕ		
	ncluding internal by apacitor)	pass 65	μμF approx.		
	external shield up to		mm. approx.		
CHARACTERISTICS (Ea	ach Section) measure	ed at la) V _a =750 V	۷;	
g _m		8.5 n	ήΑ <i>j</i> /V		
LIMITING VALUES					
V _a max	\sim	750	V		
p _a max	" .	2×20	Ŵ		
Va (pk)	max.	2,500	V		
V _{g2(b)} v	nax.	600	V		
V _{g2} /ma		225 2×3.5	×		
p _{g2} max l _g , m a		2×17	m A		
ν _κ m ₂	×. / / `	2×145	mA		
K (12/K)	nax. (each section)	550	mĄ		
V _{g1} ma		−175 2×7.5	V mA		
lg1 ma	x. max. (each section)	30	mA		
R _{g1-k} m	ax. (each section)	30,000	Ω		
/ V_{h=k-/}m :	ax.	100	V		
**Max./bi	ılb temp.	175	۰C		
Operating	Max. Anode	Max. Anod	e		
Frequency	Voltage	Input Powe			
(Mc/s)	(V)	(W)			
100	750 700	120 120			
200	600	120			
250	500	100			

^{**}Forced air cooling may be required to limit the bulb temperature to the figure quoted, at normal dissipations an air flow of approximately 5 cu. ft./min. is required.

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OPERATING CONDITIONS AS PUSH-PULL R.F. POWER AMPLIFIER OR OSCILLATOR—CLASS "C" TELEGRAPHY

V _a	500	750	٧
*V _{g2}	200	200	٧
Rea	9,300	18,300	Ω
** V g1	-4 5	-55	٧
R _{g1-k}	3,750	4,600	Ω
Rk	160	270	Ω
l _a	2×120	2×80	mA
l _{g2}	2×16	2×15	mΑ
I_{g_1}	2×6	2×6	mA approx.
Vin (pk)	2×62	2×70	V
Pdrive	0.7	0.8	W approx.
Pout	83	87	W approx.

OPERATING CONDITIONS AS CLASS "C" ANODE MODULATED PUSH-PULL R.F. AMPLIFIER

V _a	425	600	٧
*V _{g2}	200	200	٧
Res	6,400	13,300	Ω
**V _{g1}	-60	-70	٧
$R_{g_1-k}^{g_1}$	5,500	5,800	Ω
la -	2×106	2×75	m A
l_{g_2}	2×18	2×15	mΑ
lg ₁	2×5.5	2×6	mA approx.
Vin (pk)	2×77	2×86	ν
Pdrive	0.8	0.9	W approx.
P_{out}	63	70	W approx.

OPERATING CONDITIONS AS CLASS "C" GRID MODULATED PUSH-PULL R.F. POWER AMPLIFIER

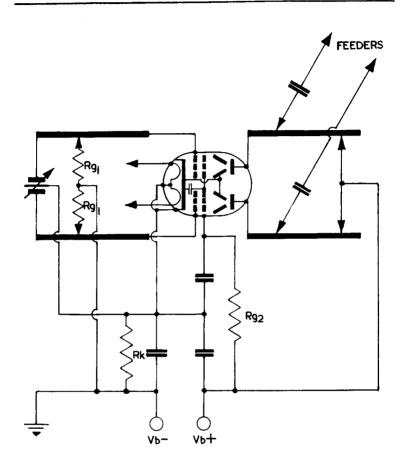
V _a	500	750	٧
V_{g_2}	200	200	V
V_{g_1}	-38	-55	٧
l _a	2×60	2×40	mΑ
lg ₂	2×5	2×2.5	m A
I_{g_1}	2×1	0	mA approx.
$v_{in}(pk)$ (R.F.)	2×41	2×52	V
Vmod (pk)	17	15	V
P_{drive}	0.5	0.7	W approx.
Pont	23	24	W approx.

^{*}May be obtained from a separate supply, or from the anode supply through series resistor (R_{g_2}) of value shown, in which case provision must be made to ensure that $V_{g_2(b)}$ does not exceed 600 V.

^{**}May be obtained from a separate supply, or by a grid or cathode resistor of value shown, or by a combination of these methods.

QQV07-40

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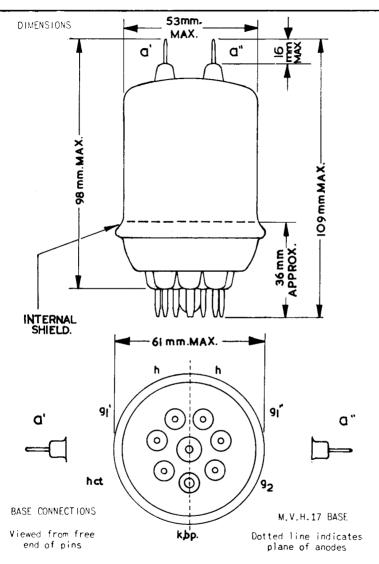


CIRCUIT DIAGRAM FOR QQV07-40 AS V.H.F. PUSH-PULL R.F. POWER AMPLIFIER

QQV07-40

R.F. POWER DOUBLE TETRODE

Twin beam-tetrode rated to dissipate 20 W at each anode, and primarily intended for use as a Class "C" amplifier or oscillator at frequencies up to 250 Mc/s.



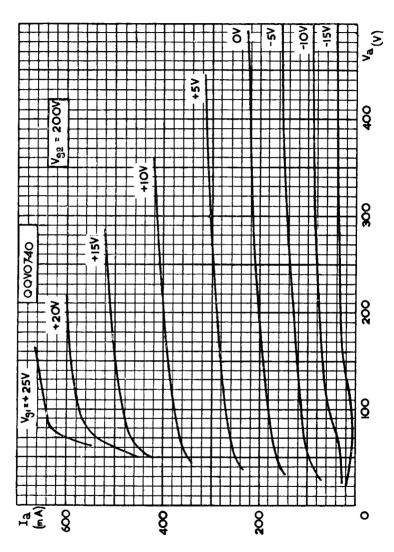
WEIGHT

Valve only 4 oz. (0.11 Kg.) Valve and carton 9½ oz. (0.27 Kg.)



QQV07-40

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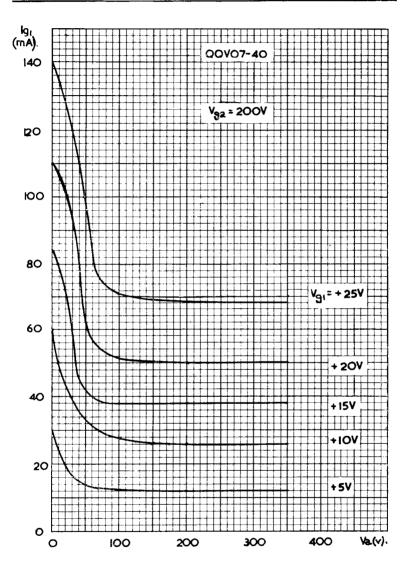
ANODE CURRENT PLOTTED AGAINST
ANODE VOLTAGE



QQV07-40

R.F. POWER DOUBLE TETRODE

Twin beam-tetrode rated to dissipate 20 W at each anode, and primarily intended for use as a Class "C" amplifier or oscillator at frequencies up to 250 Mc/s.



CONTROL GRID CURRENT PLOTTED AGAINST
ANODE VOLTAGE

