YL1020 QQZ03-20

Typical operating conditions

f_{out}	200	460	Mc/s
V _a	300	300	V
V_{g2}	250	250	٧
-V _{g1}	175	175	٧
Vin(pk)	2×205	2×205	٧
l _a	2×45	2×45	mΑ
I_{g2}	2×4.0	2×3.5	mΑ
l_{g1}^{-}	2×3.0	2×2.5	mΑ
lg1 P _{load} (driver)	3.0	5.0	W
$\eta_{\mathbf{a}}$	33	26	%
Pa	2×9.0	2×10	Ŵ
Pa P _{out}	9.0	7.0	W
P_{load}	7.0	5.5	W

OPERATING NOTE

 l_{g1} and l_{g2} will vary from valve to valve, hence the use of fixed resistors R_{g1} and R_{g2} will result in variation of input and output power. It is therefore recommended that R_{g2} be made adjustable.

CATHODE

Quick heating directly heated filament. 70% $P_{\rm out}$ in less than 0.5 second. * $V_{\rm f}$ d.c. or r.m.s. 1.6 V d.25 A Frequency of filament supply Sine wave $\begin{array}{ccc} & \text{max 200} & \text{c/s} \\ & \text{Any} \end{array}$

*The filament has been designed to accept temporary fluctuations of supply \leftarrow voltage of \pm 15%.

CAPACITANCES

Cout (two sections in push-pull)	1.5	ρF
Cin (two sections in push-pull)	4.0	ρF
Internally neutralised for push-pull operation.		•

CHARACTERISTICS (measured at $V_a = 300V$, $V_{g2} = 250V$, $I_a = 40mA$)

g _m	4.0 mA/V
μ_{g1-g2}	9.0

COOLING

Radiation and Convection cooled

Maximum temperatures		←
Base-seals	180	°C
Anode seal	250	°Č
Bulb	250	°C

Anode connectors providing a high degree of heat transfer by radiation or conduction should be used.



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QUICK HEATING DOUBLE TETRODE

MOUNTING POSITION

ANY (but see G.O.R's)

PHYSICAL DATA

Weight of valve	{ 1.8 50	oz g
Weight of valve in carton	{ 9.0 250	oz g

ACCESSORIES

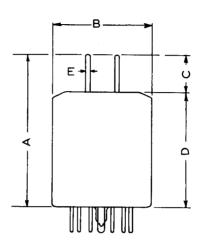
Anode clips	40623
Socket	40202

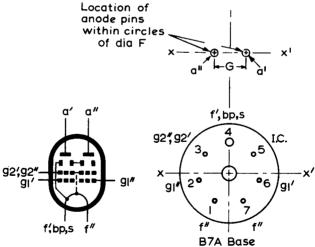
DIMENSIONS

	Inches	Millimetres	
Α	2.87 4	73 r	nax.
В	1.811	4 6 r	nax.
С	0.650 <u>+</u> 0.059	16.5 <u>+</u> 1.5	
D	2.165	55 r	nax.
E	0.079 <u>+</u> 0.004	2.0 <u>+</u> 0.1	
F	0.098 ± 0.001	2.5 ± 0.03	
G	0.551 ± 0.001	14 ± 0.03	

Inch dimensions derived from original millimetre dimensions.

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Contacts I and 7 should be strapped together externally to reduce the effective contact resistance.

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