DISC SEAL TRIODE

TD3.5-12

Indirectly heated disc seal triode primarily intended for use as a class "C" amplifier or oscillator at frequencies up to 1500Mc/s, or up to 3370Mc/s as a pulsed oscillator.

PRELIMINARY DATA

This data should be read in conjunction with GENERAL OPERATIONAL RECOMMENDATIONS – TRANSMITTING VALVES included in this volume of the handbook.

V_h	6.3	٧
I _h	900	mΑ

MOUNTING POSITION

Any

CAPACITANCES

$c_{\mathrm{a-g}}$		1.7 <u>±</u> 0.2	pϜ
c_{g-k}		2.8 ± 0.45	рF
c_{a-k}	•	< 0.05	рF
*c _{k-k(r.f)}		>30	рF

^{*}Capacitance between d.c. and r.f. cathode connections

CHARACTERISTICS (measured at $V_a=250 \text{V},\, I_a=22.5 \text{mA})$

g _m	8.0 mA/	1
μ	50	

OPERATION AS PUSH-PULL OSCILLATOR OR FREQUENCY MULTIPLIER (CLASS "C" TELEGRAPHY)

Limiting values (absolute ratings) per valve

V _a max.	500	٧
p _a max.	12	· W
la max.	40	mA
Ik max.	55	mA
f max.	1500	Mc/s
Tsasis max.	200	°C

Typical operating conditions for two valves as push-pull oscillator

f	1500	1500	Mc/s
V_a	360	470	٧
la	2×14	2×19	mA
R_{g-k}	1.0	1.0	$k\Omega$
Pout	4.7	9.0	W
Pa	2×2.65	2×4.45	W
η	47	50	: %



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OPERATION AS ANODE PULSE MODULATED CLASS "C" POWER OSCILLATOR

Limiting values (absolute ratings)

$V_{a(pulse)}$ max.	3.5 kV
p _a max.	12 W
Ik(pulse) max.	4.0 A
Max. duty cycle	0.006
t _p max.	2.0 μs
f max.	3370 Mc/s

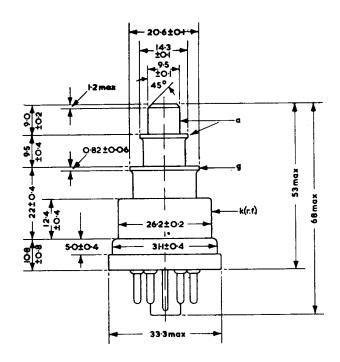
Typical operating conditions

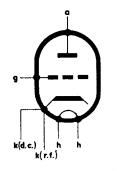
f		3370	Mc/s
$V_{a(pulse)}$		3.0	kΥ
l _a	•	3.5	mΑ
la(pulse)		2.8	Α
P_{out}		>0.75	W
$P_{out(pulse)}$	•	>750	W
R_{g-k}		100	Ω
Duty cycle		0.001	
t_{p}		1.0	μs
P.R.F.		1000	p/s

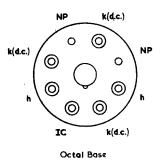
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All dimensions in mm

3896