

DISC SEAL TRIODE

TD3-12

indirectly heated disc seal triode primarily intended for use as an anode pulse modulated oscillator at frequencies up to 1300Mc/s.

PRELIMINARY DATA

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

HEATER

| | | |
|-------|-----|----|
| V_h | 6.3 | V |
| I_h | 900 | mA |

MOUNTING POSITION

Any

CAPACITANCES

| | | |
|-------------------|----------------|----|
| C_{a-g} | 1.7 ± 0.2 | pF |
| C_{g-k} | 2.8 ± 0.45 | pF |
| C_{a-k} | < 0.05 | pF |
| * $C_{k-k(r.f.)}$ | > 50 | pF |

*Capacitance between d.c. and r.f. cathode connections

CHARACTERISTICS (measured at $V_a = 250V$, $I_a = 22.5mA$)

| | | |
|-------|-----|------|
| g_m | 8.0 | mA/V |
| μ | 50 | |

OPERATION AS ANODE PULSE MODULATED POWER OSCILLATOR

Limiting Values (absolute ratings)

| | Long duty cycle | Short duty cycle | |
|-----------------------------|-----------------|------------------|-------------|
| $V_{a(pulse)} \text{ max.}$ | 2.0 | 3.0 | kV |
| $P_b \text{ max.}$ | 25 | 12 | W |
| $I_{k(pulse)} \text{ max.}$ | 1.5 | 2.5 | A |
| $t_p \text{ max.}$ | 9.0 | 3.0 | μs |
| $f \text{ max.}$ | 1300 | 1300 | Mc/s |
| $T_{seal} \text{ max.}$ | 200 | 200 | $^{\circ}C$ |



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Typical operating conditions

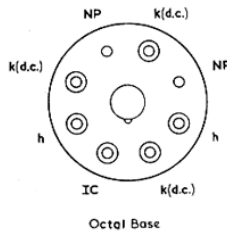
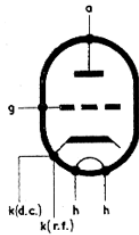
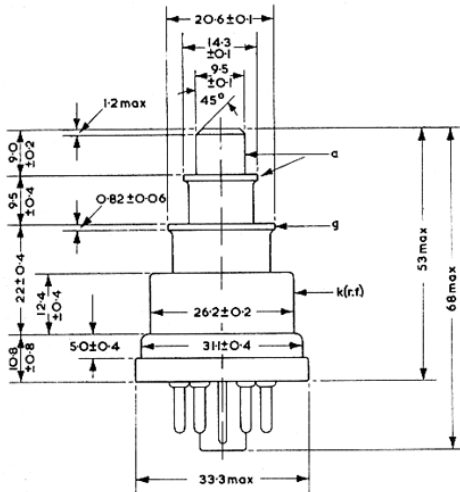
| | | | |
|------------------|-------|-------|----------|
| $V_{a(pulse)}$ | 2.0 | 3.0 | kV |
| R_{g-k} | 50 | 50 | Ω |
| I_a | 7.2 | 2.0 | mA |
| $I_{g(pulse)}$ | 1.5 | 2.5 | A |
| P_a | 9.9 | 4.25 | W |
| P_{out} | > 4.5 | > 1.2 | W |
| $P_{out(pulse)}$ | 0.75 | 1.75 | kW |
| τ_p | 3.0 | 1.0 | μs |
| P.R.F. | 2000 | 1000 | p/s |
| f | 1050 | 1050 | Mc/s |



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All dimensions in mm

3896

