



## ELECTRONIC TUBE REFERENCE

## 4D22

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## BEAMPOWER

Beam-power transmitting tube for Class-C RF amplification, oscillator, frequency-multiplier, and modulated RF service, with approximately 50 W plate dissipation.

## GENERAL CHARACTERISTICS

|                     |                   |                      |                |
|---------------------|-------------------|----------------------|----------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 7              |
| NOMINAL HEATER      | 25.2 V / 800 mA   | PARALLEL HEATER      | 12.6 V / 1.6 A |
| HEATING             | Indirect          | SERIES OPERATION     | Capable        |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar        |

## SECTION RATINGS

|                                                                                                                                     |        |
|-------------------------------------------------------------------------------------------------------------------------------------|--------|
| SECTION 1 Beam Power                                                                                                                |        |
| MAXIMUM PLATE VOLTAGE                                                                                                               | 750 V  |
| MAXIMUM SCREEN VOLTAGE                                                                                                              | 350 V  |
| MAXIMUM PLATE DISSIPATION                                                                                                           | 50 W   |
| MAXIMUM SCREEN DISSIPATION                                                                                                          | 14 W   |
| MAXIMUM GRID DISSIPATION                                                                                                            | 0.75 W |
| MAXIMUM CATHODE CURRENT                                                                                                             | 300 mA |
| <i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i> |        |

Beam-power RF tube for Class-C amplification, oscillator, frequency-multiplier and modulated RF service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1938 Raytheon

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 RAYTHEON

## Section 1 · Beam Power

| CHARACTERISTICS            |                 |                         |
|----------------------------|-----------------|-------------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE        |
| Heater or filament voltage | 25.2 V          | Published nominal value |
| Heater or filament current | 800 mA          | Published nominal value |

| OTHER                     |                 |                          |
|---------------------------|-----------------|--------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE         |
| Maximum plate dissipation | 50 W            | Published maximum rating |