



## ELECTRONIC TUBE REFERENCE

# 3CX15000H3

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**

CONSTRUCTION

**TRIODE**

Air-cooled ceramic-metal industrial power triode intended for RF heating and other high-power RF amplifier or modulator service. It provides 15 kW plate dissipation and high-voltage operation for demanding continuous-duty installations.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 162 A     | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                               |         |
|-------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>SECTION 1</b> Triode                                                                                                       |         |
| AMPLIFICATION FACTOR                                                                                                          | 20      |
| MAXIMUM PLATE VOLTAGE                                                                                                         | 12000 V |
| MAXIMUM PLATE DISSIPATION                                                                                                     | 15000 W |
| MAXIMUM GRID DISSIPATION                                                                                                      | 500 W   |
| MAXIMUM CATHODE CURRENT                                                                                                       | 6 A     |
| <i>Maximum ratings promoted from the printed service-rating tables; typical operating values are preserved as parameters.</i> |         |

Air-cooled ceramic-metal industrial RF-heating power triode.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1962 Eimac

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

1962 EIMAC

## Section 1 · Triode

**CAPACITANCE**

| PARAMETER                             | PUBLISHED VALUE | CONDITION / NOTE |
|---------------------------------------|-----------------|------------------|
| Plate-Filament - - - - 1.3<br>1.6 ppf | 1.6 pF          | —                |

**OTHER**

| PARAMETER                        | PUBLISHED VALUE | CONDITION / NOTE |
|----------------------------------|-----------------|------------------|
| Maximum plate voltage            | 12000 V         | —                |
| Maximum plate/cathode<br>current | 6 A             | —                |
| Maximum plate dissipation        | 15000 W         | —                |
| Maximum grid dissipation         | 500 W           | —                |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 199X Svetlana

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

199X SVETLANA

## Section 1 · Triode

**CHARACTERISTICS**

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE                               |
|-----------|-----------------|------------------------------------------------|
| Current @ | 7.5 V           | or modulator service. The ceramic is glazed to |
| Input     | 55 pF           | or modulator service. The ceramic is glazed to |
| Output    | 1.5 pF          | or modulator service. The ceramic is glazed to |
|           |                 |                                                |

| PARAMETER                               | PUBLISHED VALUE | CONDITION / NOTE                               |
|-----------------------------------------|-----------------|------------------------------------------------|
| Feedback                                | 34 pF           | or modulator service. The ceramic is glazed to |
| Maximum frequency for full ratings (CW) | 90 MHz          | or modulator service. The ceramic is glazed to |

| OTHER                                                   |                 |                                |
|---------------------------------------------------------|-----------------|--------------------------------|
| PARAMETER                                               | PUBLISHED VALUE | CONDITION / NOTE               |
| DC plate voltage                                        | 12000 V         | Maximum Ratings                |
| DC plate current                                        | 6 A             | Maximum Ratings                |
| Plate dissipation                                       | 15000 W         | Maximum Ratings                |
| Grid dissipation                                        | 500 W           | Maximum Ratings                |
| DC grid voltage                                         | -1000 V         | Maximum Ratings                |
| DC grid current                                         | -1 A            | Maximum Ratings                |
| Plate input power                                       | 60000 W         | Maximum Ratings                |
| (Frequencies to                                         | 30 MHz          | Typical Operation (under load) |
| DC plate voltage 7000                                   | 10000 V         | Typical Operation (under load) |
| DC plate current 6.0                                    | 5 A             | Typical Operation (under load) |
| DC grid voltage -600                                    | -800 V          | Typical Operation (under load) |
| DC grid current 660                                     | 542 mA          | Typical Operation (under load) |
| Peak RF grid voltage 440                                | 400 V           | Typical Operation (under load) |
| Driving Power 660                                       | 650 W           | Typical Operation (under load) |
| Grid dissipation 78                                     | 46 W            | Typical Operation (under load) |
| Plate input power 42,000                                | 50000 W         | Typical Operation (under load) |
| Plate dissipation 12,000                                | 8800 W          | Typical Operation (under load) |
| Plate output power 30,000                               | 41200 W         | Typical Operation (under load) |
| Approximate load impedance 600                          | 1025 Ohms       | Typical Operation (under load) |
| exceed                                                  | 600 mA          | Typical Operation (under load) |
| the need for continuous grid current temperatures below | 225 °C          | Typical Operation (under load) |
| monitoring. air temperature of                          | 50 °C           | Typical Operation (under load) |
| simultaneously. Plate current overload                  | 30 MHz          | Typical Operation (under load) |



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