

ELECTRONIC TUBE REFERENCE

TH63

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Ceramic-metal industrial power triode for Class C high-power oscillator service in dielectric-heating equipment. Approximately 10 kW plate dissipation and 10 kV capability support demanding industrial RF generators.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 7.5 V / 100 A     | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                             |         |
|-----------------------------------------------------------------------------|---------|
| SECTION1 Triode                                                             |         |
| AMPLIFICATION FACTOR                                                        | 20      |
| MAXIMUM PLATE VOLTAGE                                                       | 10000 V |
| MAXIMUM PLATE DISSIPATION                                                   | 10000 W |
| MAXIMUM GRID DISSIPATION                                                    | 250 W   |
| MAXIMUM CATHODE CURRENT                                                     | 4 A     |
| Section values promoted from published characteristics and maximum ratings. |         |

High-performance ceramic/metal industrial power triode for Class C high-power oscillator service in dielectric-heating equipment.

## SOURCE OPERATING CONDITIONS

## 199X Svetlana

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

## 199X SVETLANA

## Section 1 · Triode

| CHARACTERISTIC                 |                 |                  |
|--------------------------------|-----------------|------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE |
| Svetlana TH6-3 and TH6         | -3 A            | SourcePage1-2    |
| The SvetlanaTM TH6-3 and TH6   | -3 A            | SourcePage1-2    |
| The TH6-3 and the TH6          | -3 A            | SourcePage1-2    |
| the TH6-3 and TH6              | -3 A            | SourcePage1-2    |
| The Svetlana TH6-3 and the TH6 | -3 A            | SourcePage1-2    |
| Voltage 7.5 ±                  | 0.37 V          | SourcePage1-2    |
| Current @                      | 7.5 V           | SourcePage1-2    |
| Input                          | 53 pF           | SourcePage1-2    |
| Output                         | 1.5 pF          | SourcePage1-2    |
| Feedback                       | 34 pF           | SourcePage1-2    |

| OTHER                           |                 |                  |
|---------------------------------|-----------------|------------------|
| PARAMETER                       | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum-signal DC plate current | 4 A             | SourcePage1-2    |
| Plate Dissipation               | 10000 W         | SourcePage1-2    |
| Grid Dissipation                | 250 W           | SourcePage1-2    |
| DC plate voltage 7000           | 9000 V          | TypicalOperation |
| Plate current 4.0               | 4 A             | TypicalOperation |
| DC grid voltage -620            | -930 V          | TypicalOperation |
| DC grid current* 0.275          | 430 mA          | TypicalOperation |
| Peak cathode RF voltage* 370    | 390 V           | TypicalOperation |
|                                 |                 |                  |

| PARAMETER                                    | PUBLISHED VALUE | CONDITION / NOTE |
|----------------------------------------------|-----------------|------------------|
| Driving power* 260                           | <b>570 W</b>    | TypicalOperation |
| Plate Power output 19                        | <b>29000 W</b>  | TypicalOperation |
| Svetlana TH6-3 and TH6                       | <b>-3 A</b>     | TypicalOperation |
| Svetlana TH6-3 & TH6                         | <b>-3 A</b>     | TypicalOperation |
| TH6                                          | <b>-3 A</b>     | TypicalOperation |
| Except for star flange,<br>dimensions of TH6 | <b>-3 A</b>     | TypicalOperation |

## TUBE TINKER

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