ELECTRONIC TUBE REFERENCE

# 6421

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

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**TRIODE**

General-purpose power triode for industrial RF heating, AM broadcasting, and pulse-modulation service.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | — | **BASE PINS** | — |
| **NOMINAL HEATER** | 7 V / 85 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** | 20000 W |
| **MAXIMUM CATHODE CURRENT** | 4 A |

*Maximum ratings and general characteristics promoted from the printed service tables.*

The Machlett 6421 is a general-purpose industrial-heating, am-broadcast and pulse-modulation power triode.

SOURCE OPERATING CONDITIONS

# 1971 Machlette Laboratories

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

1971 MACHLETTE LABORATORIES

## Section 1 · Triode

| CHARACTERISTIC | | |
|---|---|---|
| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
| Amplification factor | **20** | — |

| OTHER | | |
|---|---|---|
| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum DC plate voltage | **10000 V** | — |
| Maximum plate dissipation | **20000 W** | — |
| Maximum plate/cathode current | **4 A** | — |

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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