ELECTRONIC TUBE REFERENCE

6423F

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

High-mu general-purpose power triode for industrial RF heating, broadcasting, and pulse modulation.

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	90
MAXIMUM PLATE VOLTAGE	12500 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM CATHODE CURRENT	4.6 A

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

The Machlett 6423F is a high-mu general-purpose power triode for industrial heating, broadcasting and pulse modulation.

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	90	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate voltage	12500 V	—
Maximum plate dissipation	20000 W	—
Maximum plate/cathode current	4.6 A	—

Tube Tinker

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

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker