ELECTRONIC TUBE REFERENCE

7839

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Air-cooled high-power triode for RF amplification, oscillation, Class B modulation, and hard-tube pulse applications.

General characteristics

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 285 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

Section ratings

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	65000 V
MAXIMUM PLATE DISSIPATION	10000 W

The F-7839 belongs to the F-7837/F-7838/F-7839 family for RF amplification, oscillation, Class-B modulation, and hard-tube pulse applications.

SOURCE OPERATING CONDITIONS

1962 ITT

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

1962 ITT

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	12.6 V	—
Filament Current	285 A	—
Filament Starting Current	1000 A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	37 pF	—
Plate-Filament Capacitance	2.4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	19500 V	—
Maximum Series-Regulator Plate Voltage	65000 V	—
Maximum Plate Dissipation	10000 W	—
Maximum Signal Plate Input	175 kW	—
Maximum Signal Power Output	225 kW	—
Pulse Cathode Current	160-230 A	—

Tube Tinker

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

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