



ELECTRONIC TUBE REFERENCE

3CX800A7

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Compact high-mu forced-air-cooled power triode for VHF linear RF amplification. Published grounded-grid Class AB2 service produces about 750 W output, and the tube can also operate as a high-current pulse modulator.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E11-81	BASE PINS	11
NOMINAL HEATER	13.5 V / 1.5 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	200
MAXIMUM PLATE VOLTAGE	2250 V
MAXIMUM PLATE DISSIPATION	800 W
MAXIMUM GRID DISSIPATION	4 W
MAXIMUM CATHODE CURRENT	600 mA
<i>Maximum ratings promoted from the printed service-rating tables; typical operating values are preserved as parameters.</i>	

Compact forced-air-cooled high-mu power triode for VHF RF linear amplification.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	2250 V	—
Maximum plate/cathode current	600 mA	—
Maximum plate dissipation	800 W	—
Maximum grid dissipation	4 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
Heater Voltage (AC or DC) 13.5 ±	0.6 V	The Svetlana 3CX800A7 may also be operated as a pulse modulator operating at maxi-
Heater Current @	13.5 V	The Svetlana 3CX800A7 may also be operated as a pulse modulator operating at maxi-
CCS	350 MHz	The Svetlana 3CX800A7 may also be operated as a pulse modulator operating at maxi-
ICAS	450 MHz	The Svetlana 3CX800A7 may also be operated as a pulse modulator operating at maxi-

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input	26 pF	The Svetlana 3CX800A7 may also be operated as a pulse modulator operating at maxi-
Output	6.1 pF	The Svetlana 3CX800A7 may also be operated as a pulse modulator operating at maxi-
Plate-Cathode	0.05 pF	The Svetlana 3CX800A7 may also be operated as a pulse modulator operating at maxi-

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum-signal DC plate current	600 mA	Maximum ratings Dimensional Data
Plate Dissipation	800 W	Maximum ratings Dimensional Data
Grid Dissipation	4 W	Maximum ratings Dimensional Data
DC grid current	60 mA	Maximum ratings Dimensional Data
Zero signal plate current	15 mA	Typical Operation, Class AB2, Grounded Grid CW SSB
DC grid current 36	16 mA	Typical Operation, Class AB2, Grounded Grid CW SSB
Cathode input impedance 54	54 ohms	Typical Operation, Class AB2, Grounded Grid CW SSB
Power output 750	750 W	Typical Operation, Class AB2, Grounded Grid CW SSB
Resonant load impedance 2700	2700 Ohms	Typical Operation, Class AB2, Grounded Grid CW SSB
Cooling Air at	25 °C	Typical Operation, Class AB2, Grounded Grid CW SSB
Note: When cooling air inlet temperature is raised to	50 °C	Typical Operation, Class AB2, Grounded Grid CW SSB

TUBE TINKER

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