



ELECTRONIC TUBE REFERENCE

8826

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

KLYSTRON

High-power UHF television klystron amplifier designed for broadcast transmitter service with substantial RF output and professional cooling requirements.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 16.4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Klystron	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM CATHODE CURRENT	5.5 A
<i>Published ratings, characteristics, and operating data promoted from supplied datasheet.</i>	

The 8826 is a high-power UHF television klystron amplifier. The supplied datasheet provides heater or filament data, maximum ratings, operating conditions, RF output information, and interelectrode capacitances where applicable.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 6 of 7

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

1971 RCA HB3 BINDER 6 OF 7

Section 1 · Klystron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Minimum	698 MHz	UHF television service
Frequency Maximum	890 MHz	UHF television service
Minimum Warm-up Time	180 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Beam Voltage	20 kV	—
Maximum DC Beam Current	5.5 A	—
Maximum DC Body Current	250 mA	—
Maximum DC Modulating-Anode Voltage	20 kV	—
Typical DC Beam Current, Visual	4.7 A	Visual 699.25 MHz
Typical DC Beam Current, Aural	2.4 A	Aural 703.75 MHz
Typical DC Body Current, Visual	70 mA	Visual 699.25 MHz
Typical DC Body Current, Aural	15 mA	Aural 703.75 MHz
Typical DC Modulating-Anode Voltage, Visual	0 kV	Visual 699.25 MHz
Typical DC Modulating-Anode Voltage, Aural	-6 kV	Aural 703.75 MHz
Typical Cathode Voltage	-18 kV	Visual/Aural
Typical Drive Power, Visual	10 W	Visual peak-of-sync
Typical Drive Power, Aural	1.1 W	Aural CW

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical RF Output, Visual	31 kW	Visual peak-of-sync
Typical RF Output, Aural	12 kW	Aural CW
Gain, Visual	35 dB	Visual
Gain, Aural	40 dB	Aural
Efficiency, Visual	37 %	Visual
Efficiency, Aural	28 %	Aural