

ELECTRONIC TUBE REFERENCE

8806

Power - Beam (NOT sweep) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Cermolox beam-power tube for VHF television and linear RF amplification through roughly 400 MHz, providing high gain and multi-kilowatt broadcast output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	5.7 V / 125 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM SCREEN VOLTAGE	1650 V
MAXIMUM PLATE DISSIPATION	12500 W
MAXIMUM CATHODE CURRENT	4 A
Published screen-to-control-grid mu factor promoted.	

Cermolox beam-power tube for VHF-TV and linear RF power service through 400 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5.7 V	—
Heater/filament current	125 A	—
Maximum plate voltage	8000 V	—
Maximum screen voltage	1650 V	—
Maximum plate current	4 A	—
Plate dissipation	12500 W	—
Minimum heating time	15 s	—
Full-input frequency	400 MHz	—
Peak sync output	12500 W	VHF-TV
Linear carrier output	2500 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.2 to grid No.1 mu factor	20	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Forced air	—

TUBE TINKER

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

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