



ELECTRONIC TUBE REFERENCE

5890

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Remote-cutoff high-voltage, low-current beam pentode designed specifically for shunt regulation of high-voltage DC power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12J	BASE PINS	12
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
MAXIMUM PLATE VOLTAGE	30000 V
MAXIMUM SCREEN VOLTAGE	450 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	0.5 mA
<i>Promoted from clearly identified printed ratings/characteristics; additional published operating points, capacitances, and specialized ratings retained in TUBE_SECTION_PARAMETER.</i>	

Remote-cutoff high-voltage low-current beam pentode intended for shunt regulation of high-voltage DC supplies.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Beam Power

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	HighVoltage_ShuntRegulator text	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	30000 V	ShuntVoltageRegulator



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	30000 V	ShuntRegulator
Screen voltage	200 V	ShuntRegulator
Plate current	60 mA	ShuntRegulator;GridSignal=0V
Plate current	60 mA	ShuntRegulator;GridSignal=20V
Plate current	60 mA	ShuntRegulator;GridSignal=45V
Grid-3 voltage	-5500 V	ShuntRegulator

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-4 voltage	-5500 V	ShuntRegulator

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