

ELECTRONIC TUBE REFERENCE

8156

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

Compactron beam pentode designed for Class-C radio-frequency power-amplifier and oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12EU	BASE PINS	12
NOMINAL HEATER	13.5 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12EU - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN2	–	G3 – Suppressor Grid	CONNECTED
PIN2	–	K – Cathode	CONNECTED
PIN3	–	P – Plate (Anode)	CONNECTED
PIN4	–	P – Plate (Anode)	CONNECTED
PIN5	–	P – Plate (Anode)	CONNECTED
PIN6	–	G3 – Suppressor Grid	CONNECTED
PIN6	–	K – Cathode	CONNECTED
PIN7	–	G2 – Screen Grid	CONNECTED
PIN8	–	G3 – Suppressor Grid	CONNECTED
PIN8	–	K – Cathode	CONNECTED
PIN9	–	G3 – Suppressor Grid	CONNECTED
PIN9	–	K – Cathode	CONNECTED
PIN10	–	G1 – Control Grid	CONNECTED

TERMINAL	SECTION	ELEMENT	STATUS
PIN11	—	G2 – Screen Grid	CONNECTED
PIN12	—	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0076 S
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM SCREEN DISSIPATION	2.5 W
<i>Maximum values use the highest clearly published service rating; service-specific lower limits remain in parameters.</i>	

Compactron beam pentode for Class C radio-frequency power amplifier and oscillator service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	13.5 V	—
HeaterOrFilamentCurrentNominal	300 mA	—
Maximum Plate Voltage	600 V	ICAS/IMS
Maximum Screen Voltage	250 V	—
Maximum Plate Dissipation	15 W	IMS
Maximum Screen Dissipation	2.5 W	—
Typical Plate Current	15 mA	PlateVoltage=200V
Typical Screen Current	3.5 mA	PlateVoltage=200V
Useful Power Output	21 W	ClassC;IMS

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7600 μ S	PlateVoltage=200V;ScreenVoltage=125V

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