

ELECTRONIC TUBE REFERENCE

6EL4A

Triode - HV Shunt Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-voltage beam triode for shunt regulation of low-current television power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8GC	BASE PINS	8
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8GC - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – K	A	K – Cathode	CONNECTED
PIN2 – H	–	H – Heater	CONNECTED
PIN3 – IC	–	–	IC
PIN4 – IC	–	–	IC
PIN5 – G1	A	G1 – Control Grid	CONNECTED
PIN6 – IC	–	–	IC
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – IC	–	–	IC
CAP1 – P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0002 S
MAXIMUM PLATE VOLTAGE	27000 V
MAXIMUM PLATE DISSIPATION	40 W
MAXIMUM CATHODE CURRENT	1.6 mA
<i>High-voltage beam triode shunt-regulator section; absolute maximum DC plate current 1.5 mA preserved as parameter.</i>	

Glass octal beam triode used for voltage regulation of high-voltage, low-current DC power supplies in color and black-and-white television receivers.



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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Current	1.5 mA	AbsoluteMaximum
Regulated DC Output Voltage	25000 V	ZeroLoad
Regulated DC Output Voltage	24500 V	LoadCurrent=1mA
X-radiation Maximum	0.5 mR/hr	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Effective Grid-Plate Transconductance	200 μ S	ShuntRegulator



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	0.03 pF	Capacitance
Grid to Cathode and Heater	2.6 pF	Capacitance
Plate to Cathode and Heater	1 pF	Capacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Unregulated DC Supply Voltage Maximum	60000 V	ShuntRegulator
DC Grid Voltage	-136 V	ShuntRegulator
Average Plate Current	1.6 mA	ShuntRegulator
Unregulated DC Supply Voltage	36000 V	ShuntRegulator
DC Reference Voltage Supply	200 V	ShuntRegulator
Regulated DC Output Voltage at 0 mA load	25000 V	ShuntRegulator
Regulated DC Output Voltage at 1 mA load	24500 V	ShuntRegulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
X-Radiation Maximum	0.5 mR/hr	XRay

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