ELECTRONIC TUBE REFERENCE

6CA6

Power - Beam Single (NOT sweep) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

> Beam-power amplifier designed for Class-A power-amplifier service, providing a compact audio-frequency output stage.

General characteristics

BASE DESIGNATION	7CV	**BASE PINS**	7
NOMINAL HEATER	6.3 V / 1.2 A	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

7CV - Terminal pinout

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

Section ratings

SECTION1 Beam Power

PLATE RESISTANCE	15000 Ω
TRANSCONDUCTANCE	0.0092 S
MAXIMUM PLATE VOLTAGE	130 V
MAXIMUM SCREEN VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM SCREEN DISSIPATION	1.4 W

Beam-power section; compact manual publishes two Class A operating points.

> Beam-power amplifier for Class A power-amplifier service.

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	**125 V**	ClassA
Screen-grid voltage	**125 V**	ClassA
Grid voltage	**-4.5 V**	ClassA
Plate current	**37 mA**	ClassA
Screen-grid current	**4 mA**	ClassA
Load resistance	**4500 ohm**	ClassA
Power output	**1.5 W**	ClassA
Plate voltage	**110 V**	ClassA;Alternate
Screen-grid voltage	**110 V**	ClassA;Alternate
Grid voltage	**-4 V**	ClassA;Alternate
Plate current	**32 mA**	ClassA;Alternate
Screen-grid current	**3.5 mA**	ClassA;Alternate
Load resistance	**3500 ohm**	ClassA;Alternate
Power output	**1.1 W**	ClassA;Alternate

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Input capacitance	**15 pF**	—
Output capacitance	**9 pF**	—
Grid-to-plate capacitance	**0.5 pF**	—

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

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