

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

10JA5

Power - Beam (NOT sweep) electronic tube

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power output tube designed for audio-frequency power amplification in television receivers, with series-string heater characteristics suited to transformerless consumer equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12EY	BASE PINS	12
NOMINAL HEATER	10.5 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12EY - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	H – Heater	CONNECTED • verified
PIN2 – Pin 2	A	G1 – Control Grid	CONNECTED • verified
PIN2	–	G1 – Control Grid	CONNECTED
PIN3 – Pin 3	A	G2 – Screen Grid	CONNECTED • verified
PIN3	–	G2 – Screen Grid	CONNECTED
PIN4 – Pin 4	A	BP – Beam-Forming Plate	CONNECTED • verified
PIN4 – Pin 4	A	K – Cathode	CONNECTED • verified
PIN4	–	G3 – Suppressor Grid	CONNECTED
PIN4	–	K – Cathode	CONNECTED

TERMINAL	SECTION	ELEMENT	STATUS
PIN5 – Pin 5	–	–	NC · verified
PIN6 – Pin 6	A	P – Plate (Anode)	CONNECTED · verified
PIN6	–	P – Plate (Anode)	CONNECTED
PIN7 – Pin 7	–	–	NC · verified
PIN8	–	G1 – Control Grid	CONNECTED
PIN8 – Pin 8	–	–	NC · verified
PIN9 – Pin 9	A	G1 – Control Grid	CONNECTED · verified
PIN9	–	G2 – Screen Grid	CONNECTED
PIN10 – Pin 10	A	G2 – Screen Grid	CONNECTED · verified
PIN10	–	G3 – Suppressor Grid	CONNECTED
PIN10	–	K – Cathode	CONNECTED
PIN11 – Pin 11	A	BP – Beam-Forming Plate	CONNECTED · verified
PIN11 – Pin 11	A	K – Cathode	CONNECTED · verified
PIN11	–	H – Heater	CONNECTED
PIN12 – Pin 12	–	H – Heater	CONNECTED · verified

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	12000 Ω
TRANSCONDUCTANCE	0.0103 S
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	19 W
MAXIMUM SCREEN DISSIPATION	2.75 W
MAXIMUM CATHODE CURRENT	110 mA

The 10JA5 is a Compactron beam pentode designed for color-TV vertical-deflection amplifier applications.



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
Plate Dissipation	19 W	—
PeakPulsePlateVoltage	2500 V	VerticalDeflection
Peak Cathode Current	260 mA	VerticalDeflection
Plate Voltage	135 V	AverageCharacteristics
Screen Voltage	125 V	AverageCharacteristics

TUBE TINKER

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