

ELECTRONIC TUBE REFERENCE

6MH6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

Extremely high-current Compactron beam-power pentode for color-television horizontal-deflection output, with approximately 38.5 W dissipation and ampere-class peak cathode current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12GW	BASE PINS	12
NOMINAL HEATER	6.3 V / 2.65 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12GW - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN2	–	K – Cathode	CONNECTED
PIN3	–	G2 – Screen Grid	CONNECTED
PIN4	–	G3 – Suppressor Grid	CONNECTED
PIN5	–	G1 – Control Grid	CONNECTED
PIN7	–	–	IC
PIN9	–	G1 – Control Grid	CONNECTED
PIN10	–	G3 – Suppressor Grid	CONNECTED
PIN11	–	G2 – Screen Grid	CONNECTED
PIN12	–	H – Heater	CONNECTED
CAP1	–	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	6000 Ω
TRANSCONDUCTANCE	0.014 S
AMPLIFICATION FACTOR	4
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	38.5 W
MAXIMUM SCREEN DISSIPATION	7 W
MAXIMUM CATHODE CURRENT	500 mA
<i>No DC maximum plate-voltage value is promoted: the sheet publishes an 8000 V peak positive pulse plate-voltage rating, preserved in parameters.</i>	

Compactron beam-power pentode for color-TV horizontal-deflection amplifier service with very high peak current.

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
Peak Positive Pulse Plate Voltage	8000 V	HorizontalDeflection
PositiveDCBeamPlateVoltage	50 V	HorizontalDeflection
Maximum Screen Voltage	275 V	HorizontalDeflection
PeakNegativeGrid1Voltage	300 V	HorizontalDeflection
Maximum Plate Dissipation	38.5 W	HorizontalDeflection
Maximum Screen Dissipation	7 W	HorizontalDeflection
Maximum DC Cathode Current	500 mA	HorizontalDeflection
Maximum Peak Cathode Current	1750 mA	HorizontalDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	6000 ohm	PlateVoltage=175V
Transconductance	14000 uS	PlateVoltage=175V
TriodeAmplificationFactor	4	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1 To Plate Capacitance	1 pF	—
Input Capacitance	40 pF	—
Output Capacitance	20 pF	—

TUBE TINKER

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

