



ELECTRONIC TUBE REFERENCE

6916

Heptode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEPTODE

Pentagrid amplifier for specialized gating, mixing, amplification, and control applications, with comparatively low plate resistance for a multi-grid heptode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7CH	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7CH - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN2 – G5	A	G5 – Fifth Grid	CONNECTED
PIN2 – K	A	K – Cathode	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – P	A	P – Plate (Anode)	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN6 – G4	A	G4 – Fourth Grid	CONNECTED
PIN7 – G3	A	G3 – Suppressor Grid	CONNECTED

SECTION RATINGS

SECTION1 Heptode	
PLATE RESISTANCE	47000 Ω
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	125 V
<i>Published maximum ratings, representative operating conditions, and available capacitance/rectifier data reviewed.</i>	

6916 is listed in the supplied receiving-tube handbook as a pentagrid amplifier. The published heater/filament rating is 6.3 V at 0.3 A. Maximum ratings, representative operating characteristics, and available special-service data were captured from the supplied table.

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 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	Published handbook rating
Maximum screen voltage	125 V	Published handbook rating
Plate voltage	150 V	ClassA
Screen voltage	150 V	ClassA
Control-grid bias	0 V	ClassA
Plate current	14 mA	ClassA
Gated amplifier plate voltage	150 V	GatedAmplifier
Gated amplifier control-grid voltage	10 V	GatedAmplifier
Gated amplifier plate current	0 mA	GatedAmplifier
Gated amplifier grid current	0 mA	GatedAmplifier
Gated amplifier grid resistor	47000 ohm	GatedAmplifier
Gated amplifier load resistance	20000 ohm	GatedAmplifier
Alternate gate plate voltage	150 V	GatedAmplifier Alternate
Alternate gate control-grid voltage	0 V	GatedAmplifier Alternate
Alternate gate plate current	5.8 mA	GatedAmplifier Alternate
Alternate gate screen current	9 mA	GatedAmplifier Alternate

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	47000 ohm	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating