

ELECTRONIC TUBE REFERENCE

6920

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Medium-mu twin triode providing two closely related triode sections for general voltage-amplifier service, with published operating characteristics for miniature electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7BF	BASE PINS	7
NOMINAL HEATER	6.3 V / 400 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7BF - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 1P	A	P – Plate (Anode)	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – 1G1	A	G1 – Control Grid	CONNECTED
PIN6 – 2G1	B	G1 – Control Grid	CONNECTED
PIN7 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	150 V
<i>Published maximum ratings, representative operating conditions, and available capacitance/rectifier data reviewed.</i>	

SECTION2 Triode	
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	150 V
<i>Second physical triode section; electrically identical twin section.</i>	

6920 is listed in the supplied receiving-tube handbook as a medium-mu twin triode. The published heater/filament rating is 6.3 V at 0.4 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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	150 V	Published handbook rating
Plate voltage	100 V	ClassA
Control-grid bias	1.8 V	ClassA
Plate current	8.5 mA	ClassA
Frequency-halfer plate voltage	150 V	FrequencyHalfer
Frequency-halfer control-grid voltage	0 V	FrequencyHalfer
Frequency-halfer plate current	4.5 mA	FrequencyHalfer
Frequency-halfer grid resistor	47000 ohm	FrequencyHalfer
Frequency-halfer load resistance	20000 ohm	FrequencyHalfer

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5500 μ S	Published handbook characteristic
Amplification factor	25	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	400 mA	Published heater/filament rating