



ELECTRONIC TUBE REFERENCE

1E7GT

Voltage - Dual Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-PENTODE

GT-envelope directly heated twin power pentode designed for push-pull audio-output service in battery receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8C	BASE PINS	8
NOMINAL HEATER	2 V / 240 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode

PLATE RESISTANCE	260000 Ω
TRANSCONDUCTANCE	0.001425 S
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM SCREEN VOLTAGE	135 V

Each pentode section; identical-section compression applied.

SECTION2 Pentode

PLATE RESISTANCE	260000 Ω
TRANSCONDUCTANCE	0.001425 S
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM SCREEN VOLTAGE	135 V

Second physical pentode section; electrically identical twin section.

Directly heated twin-pentode power-amplifier tube; electrically identical pentode sections are compressed to one section row.

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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	135 V	EachSection
Maximum screen-grid voltage	135 V	EachSection
Plate voltage	135 V	ClassA EachSection
Screen-grid voltage	135 V	ClassA EachSection
Control-grid voltage	-4.5 V	ClassA EachSection
Plate current	7.5 mA	ClassA EachSection
Screen-grid current	2.2 mA	ClassA EachSection
Plate resistance	260000 Ohm	ClassA EachSection
Transconductance	1425 uS	ClassA EachSection
Load resistance	16000 Ohm	ClassA EachSection
Power output	0.29 W	ClassA EachSection
Plate voltage	90 V	ClassA EachSection 90V
Screen-grid voltage	90 V	ClassA EachSection 90V
Control-grid voltage	-3 V	ClassA EachSection 90V
Plate current	3.8 mA	ClassA EachSection 90V
Screen-grid current	1.1 mA	ClassA EachSection 90V
Plate resistance	340000 Ohm	ClassA EachSection 90V
Transconductance	1150 uS	ClassA EachSection 90V
Load resistance	20000 Ohm	ClassA EachSection 90V
Power output	0.11 W	ClassA EachSection 90V
Plate voltage	135 V	ClassA PushPull TwoSections

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen-grid voltage	135 V	ClassA PushPull TwoSections
Control-grid voltage	-7.5 V	ClassA PushPull TwoSections
Plate current	7 mA	ClassA PushPull TwoSections
Screen-grid current	2 mA	ClassA PushPull TwoSections
Load resistance	24000 Ohm	ClassA PushPull TwoSections
Power output	0.575 W	ClassA PushPull TwoSections

TUBE TINKER

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