



ELECTRONIC TUBE REFERENCE

6J8GA

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

2 SECTIONS
CONSTRUCTION
HEPTODE-TRIODE

Triode-heptode oscillator-converter for superheterodyne receiving service. The triode supplies local oscillation while the heptode mixer offers exceptionally high output resistance for strong converter-circuit isolation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Heptode	
PLATE RESISTANCE	4000000 Ω
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM PLATE DISSIPATION	0.9 W
<i>Published ratings and characteristics promoted where clearly stated; identical repeated diode/triode sections compressed where applicable.</i>	

SECTION2 Triode	
PLATE RESISTANCE	10600 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.8 W
<i>Published ratings and characteristics promoted where clearly stated; identical repeated diode/triode sections compressed where applicable.</i>	

Triode-heptode converter combining a local oscillator triode with a heptode mixer for receiver frequency conversion.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1940 RCA

Section 1 · Heptode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	450 mA	Published nominal value
Heptode plate resistance	4 Mohm	At published operating point

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	0.9 W	Published maximum or stated design maximum
Conversion transconductance	290 μ S	Converter service

1940 RCA

Section 2 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	450 mA	Published nominal value
Transconductance	1600 μ S	Published operating characteristic
Amplification factor	17	Published operating characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	0.8 W	Published maximum or stated design maximum

TUBE TINKER

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

