

ELECTRONIC TUBE REFERENCE

6GM8

Voltage - Triode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Low-voltage frame-grid twin triode designed for RF amplifier and mixer service, capable of useful operation from unusually low plate supplies in compact receiver front ends.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9DE	BASE PINS	9
NOMINAL HEATER	6.3 V / 330 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9DE - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2G1	B	G1 – Control Grid	CONNECTED
PIN3 – 2K	B	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – 1G1	A	G1 – Control Grid	CONNECTED
PIN8 – 1K	A	K – Cathode	CONNECTED
PIN9 – IS	A	IS – Internal Screen	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	2100 Ω
TRANSCONDUCTANCE	0.0026 S
AMPLIFICATION FACTOR	14
MAXIMUM PLATE VOLTAGE	30 V
MAXIMUM PLATE DISSIPATION	0.6 W
<i>Published maximum ratings and general characteristics promoted from the supplied datasheet.</i>	

SECTION2 Triode	
PLATE RESISTANCE	2100 Ω
TRANSCONDUCTANCE	0.0026 S
AMPLIFICATION FACTOR	14
MAXIMUM PLATE VOLTAGE	30 V
MAXIMUM PLATE DISSIPATION	0.6 W
<i>Second identical physical triode section; added to align rows with SectionCount.</i>	

6GM8 is listed in the supplied Amperex material as a low-voltage frame-grid twin triode RF amplifier/mixer. Published operating conditions and electrical characteristics were captured from the supplied tables.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	6.3 V	—
Heater/Filament Current	330 mA	—
Maximum Plate Voltage	30 V	—
Maximum Plate Dissipation	0.6 W	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2600 μ S	—
Amplification Factor	14	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	330 mA	Published heater rating
Amplification factor	14	RFAmplifier
Plate resistance	2100 ohm	RFAmplifier

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mixer amplification factor	5	MixerSection
Mixer transconductance	2000 μ S	MixerSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RF-amplifier grid voltage	0 V	RFAmplifier
RF-amplifier plate current	7.5 mA	RFAmplifier
Mixer plate voltage	25 V	MixerSection
Mixer plate current	2.6 mA	MixerSection

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker