

ELECTRONIC TUBE REFERENCE

5CQ8

Voltage - Triode Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TETRODE-TRIODE

Medium-mu triode and sharp-cutoff tetrode for television mixer, IF-amplifier, and related signal service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9GE	BASE PINS	9
NOMINAL HEATER	4.7 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9GE - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	A	P – Plate (Anode)	CONNECTED
PIN2	B	G1 – Control Grid	CONNECTED
PIN3	B	G2 – Screen Grid	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	B	P – Plate (Anode)	CONNECTED
PIN7	B	K – Cathode	CONNECTED
PIN7	–	IS – Internal Screen	CONNECTED
PIN8	A	K – Cathode	CONNECTED
PIN9	A	G1 – Control Grid	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.008 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	11 s
Referenced ratings not printed in this source; not inferred.	

SECTION2 Tetrode	
PLATE RESISTANCE	140000 Ω
TRANSCONDUCTANCE	0.0058 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3.2 W
MAXIMUM SCREEN DISSIPATION	0.7 W
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	11 s
Referenced ratings not printed in this source; not inferred.	

5CQ8 is described in the supplied Tung-Sol datasheet as a medium-mu triode and sharp-cutoff tetrode for television service. The redo includes a substantive section-electrical extraction from ratings and characteristic tables.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	ClassA

1961 TUNG SOL

Section 2 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	ClassA



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	4.7 V	Published rating
Heater/filament current	600 mA	Published rating
Triode transconductance	8000 μ S	TriodeSection
Triode amplification factor	40	TriodeSection
Tetrode plate resistance	340000 ohm	TetrodeSection
Tetrode transconductance	5800 μ S	TetrodeSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Television oscillator, mixer and RF amplifier	TelevisionService
Triode plate voltage	125 V	TriodeSection
Triode plate current	15 mA	TriodeSection
Tetrode plate voltage	125 V	TetrodeSection
Tetrode screen voltage	125 V	TetrodeSection
Tetrode plate current	12 mA	TetrodeSection
Tetrode screen current	4.2 mA	TetrodeSection


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warmup Time	11 s	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	Triode;ClassA
Grid voltage	-1 V	Triode;ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	15 mA	Triode;ClassA
Heater/filament voltage	4.7 V	DerivativeSheet
Heater/filament current	600 mA	DerivativeSheet
Heater warm-up time	11 s	ControlledWarmup

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	5200 ohm	Triode
Transconductance	7500 uS	Triode
Amplification factor	40	Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.8 pF	Triode

1971 RCA HB3 BINDER 4 OF 7

Section 2 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	Tetrode;ClassA
Screen voltage	125 V	Tetrode;ClassA
Grid voltage	-1 V	Tetrode;ClassA
Plate current	12 mA	Tetrode;ClassA
Screen current	4 mA	Tetrode;ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	200000 ohm	Tetrode
Transconductance	7500 uS	Tetrode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.01 pF	Tetrode

TUBE TINKER

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and their source documents.

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