



ELECTRONIC TUBE REFERENCE

6AB8

Voltage Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Common-cathode triode plus power pentode for television frame time-base, sync-separator, and audio-output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	DAT	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.0034 S
AMPLIFICATION FACTOR	17.5
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	15 mA
Published maximum ratings and representative operating characteristics reviewed.	

SECTION2 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.0034 S
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3.9 W
MAXIMUM SCREEN DISSIPATION	0.75 W
MAXIMUM CATHODE CURRENT	25 mA
Published maximum ratings and representative operating characteristics reviewed.	

Common-cathode triode-pentode, co-designated ECL80/6AB8, for television frame time-base, sync-separator, and audio-output service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Frame blocking oscillator / AF voltage amplifier	TriodeSection

1958 BRIMAR RADIO VALVE NO 7

Section 2 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Frame output / sync separator / audio output	PentodeSection

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 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	350 V	Published handbook rating
Maximum screen voltage	250 V	Published handbook rating
Plate voltage	200 V	ClassA
Screen voltage	200 V	ClassA
Control-grid bias	7.7 V	ClassA
Plate current	17.5 mA	ClassA
Screen current	3.3 mA	ClassA
Load resistance	11000 ohm	ClassA
Power output	1.4 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	150000 ohm	Published handbook characteristic
Transconductance	3400 μ S	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Ferranti Technical Handbook

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

1961 FERRANTI TECHNICAL HANDBOOK

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	300 mA	—
Application	Frame blocking oscillator line blocking oscillator audio voltage amplifier	

1961 FERRANTI TECHNICAL HANDBOOK

Section 2 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Frame output sync separator audio output	



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode plate-grid capacitance	1 pF	—
Triode grid-cathode capacitance	2.3 pF	—
Triode plate-cathode capacitance	1.1 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Transconductance	3400 μ S	Pentode
Plate resistance	150000 ohm	Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Pentode;PowerAmplifier
Screen voltage	200 V	Pentode;PowerAmplifier
Plate current	17.5 mA	Pentode;PowerAmplifier
Screen current	3.3 mA	Pentode;PowerAmplifier
Plate load resistance	11000 ohm	Pentode;PowerAmplifier
Maximum plate dissipation	3.9 W	Pentode
Maximum screen dissipation	0.75 W	Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode input capacitance	4.6 pF	—
Pentode output capacitance	4.7 pF	—