



ELECTRONIC TUBE REFERENCE

6AH6WA

Voltage Pentode - Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

High-transconductance sharp-cutoff pentode designed for wide-band and video amplification. Its substantial slope and fixed-control characteristic provide strong broadband gain for demanding signal stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	500000 Ω
TRANSCONDUCTANCE	0.009 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	2.8 W
MAXIMUM SCREEN DISSIPATION	0.45 W
MAXIMUM CATHODE CURRENT	28 mA
Section 1 extracted from 6AH6WA.pdf.	

High-transconductance sharp-cutoff pentode for wide-band and video amplification. Data was extracted from the supplied Tung-Sol source, including published ratings, characteristics, and operating information.



SOURCE OPERATING CONDITIONS

SOURCE PDF

1938 Raytheon

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

1938 RAYTHEON
Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage Eb: ceee 300 300	330 Vdc	Plate Voltage Eb: ceee 300 300 330 Vdc
Grid #2 Voltage Ec2: cnen 150 150	165 Vde	Grid #2 Voltage Ec2: cnen 150 150 165 Vde
Heater Current: "eee It 410	490 mA	Heater Current: "eee It 410 490 mA 1 3
Interface Resis- cene riz cene	25 Ω	Interface Resis- cene riz cene 25 ohms i 3



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumImpactAcceleration	450 G	—
MaximumVibrationalAcceleration	2.5 G	—



1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4
Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	500000 ohm	PromotedValue
Transconductance	0.009 A/V	PromotedValue
THE f;AH6;vA IS A HEATER-CATHODE TYPE H16HTRANSCONDUCTANCE, SHARP CUT-OFF – published value 1	6	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
THE f;AH6;vA IS A HEATER-CATHODE TYPE H16HTRANSCONDUCTANCE, SHARP CUT-OFF – published value 2	16	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER VOLTAGE (NOTE 7) – published value 1	3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER VOLTAGE (NOTE 7) – published value 2	6.9 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE – published value 1	300	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE – published value 2	330	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #1 VOLTAGE – published value 1	0	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #1 VOLTAGE – published value 2	0	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #2 VOLTAGE – published value 1	15	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #2 VOLTAGE – published value 2	163	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID #3 VOLTAGE – published value 1	3	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #3 VOLTAGE – published value 2	0	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE DISSIPATION – published value 1	3	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE DISSIPATION – published value 2	3.3	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #2 DISSIPATION – published value 1	0.38	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #2 DISSIPATION – published value 2	0.45	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
H EATER –CATHODE VOLTAGE – published value 1	100	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
H EATER –CATHODE VOLTAGE – published value 2	200	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
CATHODE CURRENT – published value 1	12.5 mAdc	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
CATHODE CURRENT – published value 2	28 mAdc	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
CATHODE RESISTANCE – published value 1	16 OHMS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
CATHODE RESISTANCE – published value 2	16 OHMS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE CURRENT (i) – published value 1	1 mAdc	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE CURRENT (i) – published value 2	10 mAdc	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID #2 CURRENT – published value 1	2 mAdc	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID #2 CURRENT – published value 2	2.5 mAdc	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
TRANSCONDUCTANCE (i)	9000 μ MHOS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE RESISTANCE	5	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER CURRENT – published value 1	468	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER CURRENT – published value 2	480	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE CURRENT (i) – published value 1	10 mAdc	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE CURRENT (i) – published value 2	12.5 mAdc	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE CURRENT (2)	2	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	PromotedValue
Maximum screen voltage	200 V	PromotedValue
Maximum plate dissipation	3.5 W	PromotedValue
Maximum screen dissipation	0.75 W	PromotedValue
Maximum cathode current	25 mA	PromotedValue
MAXIMUM BULB TEMPERATURE	18	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.