



ELECTRONIC TUBE REFERENCE

6760

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Power/output pentode designed for audio, broadband, telephone, industrial, or general power-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7CH	BASE PINS	7
NOMINAL HEATER	18 V / 350 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7CH - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN2 – G5	A	G5 – Fifth Grid	CONNECTED
PIN2 – K	A	K – Cathode	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – P	A	P – Plate (Anode)	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN6 – G4	A	G4 – Fourth Grid	CONNECTED
PIN7 – G3	A	G3 – Suppressor Grid	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.012 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	100 mA
<i>Published ratings and characteristics audited; additional numerical data retained in TUBE_SECTION_PARAMETER.</i>	

The 6760 is a long-life miniature power-amplifier pentode intended for telephone equipment and industrial applications, especially broadband amplifier output stages, with reliable operation under vibration.

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 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published handbook rating
Maximum screen voltage	100 V	Published handbook rating
Plate voltage	250 V	ClassA
Screen voltage	100 V	ClassA
Control-grid bias	1.5 V	ClassA
Plate current	2.6 mA	ClassA
Screen current	7.5 mA	ClassA
Oscillator grid current	0.5 mA	Converter Oscillator
Oscillator grid resistor	20000 ohm	Converter Oscillator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1000000 ohm	Published handbook characteristic
Transconductance	475 μ S	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating

1960 Ericsson

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

1960 ERICSSON

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
POWER AMPLIFIER PENTODES { [1]	6760 W	POWER AMPLIFIER PENTODES { 6760 AND 6761 ;
POWER AMPLIFIER PENTODES { [2]	6761 W	POWER AMPLIFIER PENTODES { 6760 AND 6761 ;
Except for heater ratings the [1]	6760	Except for heater ratings the 6760 is identical with the 6761.
Except for heater ratings the [2]	6761	Except for heater ratings the 6760 is identical with the 6761.
Pin No [1]	1	Pin No 1 - Plate Pin No 6 - Plate
Pin No [2]	6	Pin No 1 - Plate Pin No 6 - Plate
Pin No [1]	2	Pin No 2 - Grid No 1 Pin No 7 - Grid No 2
Pin No [2]	1	Pin No 2 - Grid No 1 Pin No 7 - Grid No 2
Pin No [3]	7	Pin No 2 - Grid No 1 Pin No 7 - Grid No 2
Pin No [4]	2	Pin No 2 - Grid No 1 Pin No 7 - Grid No 2
Pin No [1]	3	Pin No 3 - Cathode and Grid No 3 Pin No 8 - Cathode and Grid No 3
Pin No [2]	3	Pin No 3 - Cathode and Grid No 3 Pin No 8 - Cathode and Grid No 3
Pin No [3]	8	Pin No 3 - Cathode and Grid No 3 Pin No 8 - Cathode and Grid No 3
Pin No [4]	3	Pin No 3 - Cathode and Grid No 3 Pin No 8 - Cathode and Grid No 3
Pin No [1]	4	Pin No 4 - Heater Pin No 9 - No Connection
Pin No [2]	9	Pin No 4 - Heater Pin No 9 - No Connection
Pin No	5	Pin No 5 ~ Heater
Grid No [1]	1	Grid No 1 to Plates 81 CO P o ꝑ o 0 o 5 ꝑ o o L] . 0.4 uuf
Grid No [2]	81	Grid No 1 to Plates 81 CO P o ꝑ o 0 o 5 ꝑ o o L] . 0.4 uuf

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No [3]	0	Grid No 1 to Plates 81 CO P o ¢ o 0 o 5 ¢ o o L] . 0.4 uuf
Grid No [4]	5	Grid No 1 to Plates 81 CO P o ¢ o 0 o 5 ¢ o o L] . 0.4 uuf
Grid No [5]	0.4	Grid No 1 to Plates 81 CO P o ¢ o 0 o 5 ¢ o o L] . 0.4 uuf
Input:s g1 to h + k + g2 + g3 * L]	11	Input:s g1 to h + k + g2 + g3 * L] 11' uu?®
Outputs p to h + k¥ + g2 + g3 N	5	Outputs p to h + k¥ + g2 + g3 N 5 uupP
Grid No [1]	2 V	Grid No 2 Voltage . . . 200 volts
Grid No [2]	200 V	Grid No 2 Voltage . . . 200 volts
Plate Diassipation	10	Plate Diassipation 10 wvatts
Grid No [1]	2 W	Grid No 2 Dissipation ., 1.5 watts
Grid No [2]	1.5 W	Grid No 2 Dissipation ., 1.5 watts
Cathode Current	100 mA	Cathode Current 100 milliamps
Heater = Cathode Voltage	100 V	Heater = Cathode Voltage . 100 volts
Heater Voltage . « o s o s e s @ [1]	18 V	Heater Voltage . « o s o s e s @ 18.0 6.3 volts
Heater Voltage . « o s o s e s @ [2]	6.3 V	Heater Voltage . « o s o s e s @ 18.0 6.3 volts
Heater Current . . « . . « e e s t e s s [1]	350 mA	Heater Current . . « . . « e e s t e s s 0.35 1.0 anps
Heater Current . . « . . « e e s t e s s [2]	1 A	Heater Current . . « . . « e e s t e s s 0.35 1.0 anps
Plate Voltage « . « « « o s s e s » [1]	130 V	Plate Voltage « . « « « o s s e s » 130 130 volts
Plate Voltage « . « « « o s s e s » [2]	130 V	Plate Voltage « . « « « o s s e s » 130 130 volts
Grid No [1]	2 V	Grid No 2 Voltage . . . e ¢ s 4 o s+ s 130 130 volts
Grid No [2]	4 V	Grid No 2 Voltage . . . e ¢ s 4 o s+ s 130 130 volts
Grid No [3]	130 V	Grid No 2 Voltage . . . e ¢ s 4 o s+ s 130 130 volts
Grid No [4]	130 V	Grid No 2 Voltage . . . e ¢ s 4 o s+ s 130 130 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Bias Resistor . *« = 2 ohm [1]		Cathode Bias Resistor . *« = 2 8 & & s @ 100 100 ohms
Cathode Bias Resistor . *« = 8 ohm [2]		Cathode Bias Resistor . *« = 2 8 & & s @ 100 100 ohms
Cathode Bias Resistor . *« = 100 ohm [3]		Cathode Bias Resistor . *« = 2 8 & & s @ 100 100 ohms
Cathode Bias Resistor . *« = 100 ohm [4]		Cathode Bias Resistor . *« = 2 8 & & s @ 100 100 ohms
Plate Current , ... e s 70 A e e s e = e [1]		Plate Current , ... e s e e s e = e 70 70 milliamwps
Plate Current , ... e s 70 A e e s e = e [2]		Plate Current , ... e s e e s e = e 70 70 milliamwps
Grid No [1]	2 mA	Grid No 2 Current . . . e * v s s e s @ 345 35 milliamps
Grid No [2]	345 mA	Grid No 2 Current . . . e * v s s e s @ 345 35 milliamps
Grid No [3]	35 mA	Grid No 2 Current . . . e * v s s e s @ 345 35 milliamps
Transconductance . «e s	4 A/V	Transconductance . «e s 4 o s s e o
Grid No [1]	1 V	Grid No 1 Voltage approx. for Ib = 10 uA ~25 =25 volts
Grid No [2]	10 V	Grid No 1 Voltage approx. for Ib = 10 uA ~25 =25 volts
Grid No [3]	25 V	Grid No 1 Voltage approx. for Ib = 10 uA ~25 =25 volts
Grid No [4]	25 V	Grid No 1 Voltage approx. for Ib = 10 uA ~25 =25 volts
Load Resistor . . ¢« « » * L] L] L4 » L L] L) [1]	2000 ohm	Load Resistor . . ¢« « » * L] L] L4 » L L] L) 2000 2000 ohms
Load Resistor . . ¢« « » * L] L] L4 » L L] L) [2]	2000 ohm	Load Resistor . . ¢« « » * L] L] L4 » L L] L) 2000 2000 ohms
Power Output at [1]	10 W	Power Output at 10 % Digtortion 3-0 2.0 watts
Power Output at [2]	3 W	Power Output at 10 % Digtortion 3-0 2.0 watts
Power Output at [3]	0 W	Power Output at 10 % Digtortion 3-0 2.0 watts
Power Output at [4]	2 W	Power Output at 10 % Digtortion 3-0 2.0 watts