



ELECTRONIC TUBE REFERENCE

6928

Power - Pentode Single (NOT beam) (under 10W) 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	E7-1	BASE PINS	7
NOMINAL HEATER	6.3 V / 360 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	80000 Ω
TRANSCONDUCTANCE	0.0039 S
AMPLIFICATION FACTOR	10
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	8 W
MAXIMUM SCREEN DISSIPATION	1 W
<i>Published ratings and characteristics audited; additional numerical data retained in TUBE_SECTION_PARAMETER.</i>	

Long-life, low-failure-rate power amplifier pentode for dependable medium-power applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
The	6928 W	The 6928 is intended for use in medium power applications, where very
Published value [1]	1	1. Grid No 1 -« 3
Published value [2]	1	1. Grid No 1 -« 3
Published value [3]	3	1. Grid No 1 -« 3
Published value [1]	2	2. Cathode and Grid No 3 i
Published value [2]	3	2. Cathode and Grid No 3 i
Published value	3	3. Heater =
Published value	4	4. Heater
Published value	5	5. Plate
Published value [1]	60	60 Grid No 2 BOTTON YIBV
Published value [2]	2	60 Grid No 2 BOTTON YIBV
Published value [1]	7	7. Grid No 1
Published value [2]	1	7. Grid No 1
Grid Nol to Plate . . . « [1]	0.17	Grid Nol to Plate . . . « 0.17 0. 35 uuF
Grid Nol to Plate . . . « [2]	0	Grid Nol to Plate . . . « 0.17 0. 35 uuF
Grid Nol to Plate . . . « [3]	35	Grid Nol to Plate . . . « 0.17 0. 35 uuF
Input + . v . e e [1]	8	Input + . v . e e e 8.0 7.6 uuF
Input + . v . e e [2]	7.6	Input + . v . e e e 8.0 7.6 uuF
Grid No [1]	1	Grid No 1 to Plate . - 0.17 0. 35 uuF

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No [2]	0.17	Grid No 1 to Plate . - 0.17 0. 35 uuF
Grid No [3]	0	Grid No 1 to Plate . - 0.17 0. 35 uuF
Grid No [4]	35	Grid No 1 to Plate . - 0.17 0. 35 uuF
Input [1]	6.4	Input . 6.4 8.0 9.6 uuF
Input [2]	8	Input . 6.4 8.0 9.6 uuF
Input [3]	9.6	Input . 6.4 8.0 9.6 uuF
Plate Voltage	200 V	Plate Voltage 200 volts
Grid No [1]	2 V	Grid No 2 Voltage 200 volts
Grid No [2]	200 V	Grid No 2 Voltage 200 volts
Plate Dissipation , . .,	8 W	Plate Dissipation , ... 8 watts
Grid No [1]	2 W	Grid No 2 Dissipation 1 watt
Grid No [2]	1 W	Grid No 2 Dissipation 1 watt
Heater - Cathode Voltage . . . v e e	90 V	Heater - Cathode Voltage . . . v e e . 90 volts
Bulb Temperature (at hottest pmnt) e e	200	Bulb Temperature (at hottest pmnt) e e 200 °c
Grid No [1]	1 Mohm	Grid No 1 Circuit Resistance 0.5 megohm
Grid No [2]	0.5 Mohm	Grid No 1 Circuit Resistance 0.5 megohm
Heater Vo]’tage**. e e e e [1]	6.375	Heater Vo]’tage**. e e e e 6.375% 6.325% volts
Heater Vo]’tage**. e e e e [2]	6.325	Heater Vo]’tage**. e e e e 6.375% 6.325% volts
Heater Current [1]	0 mA	Heater Current 0. 360 0. 360 amp
Heater Current [2]	360 A	Heater Current 0. 360 0. 360 amp
Heater Current [3]	0 mA	Heater Current 0. 360 0. 360 amp
Heater Current [4]	360 A	Heater Current 0. 360 0. 360 amp
Plate Supply Voltage [1]	130 V	Plate Supply Voltage 130 180 volts
Plate Supply Voltage [2]	180 V	Plate Supply Voltage 130 180 volts
Grid No [1]	2 V	Grid No 2 Supply Voltage , 130 180 volts
Grid No [2]	130 V	Grid No 2 Supply Voltage , 130 180 volts
Grid No [3]	180 V	Grid No 2 Supply Voltage , 130 180 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Bias Resistor . . . , [1]	200 ohm	Cathode Bias Resistor . . . , ... 200 220 chms
Cathode Bias Resistor . . . , [2]	220 ohm	Cathode Bias Resistor . . . , ... 200 220 chms
Plate Current [1]	23 mA	Plate Current 23 32.5 milliamps
Plate Current [2]	32.5 mA	Plate Current 23 32.5 milliamps
Grid No [1]	2 mA	Grid No 2 Current 2 3 milliamps
Grid No [2]	2 mA	Grid No 2 Current 2 3 milliamps
Grid No [3]	3 mA	Grid No 2 Current 2 3 milliamps
Plate Resistance . , [1]	80 ohm	Plate Resistance . , ... 80, 000 80,000 ohms
Plate Resistance . , [2]	0 ohm	Plate Resistance . , ... 80, 000 80,000 ohms
Plate Resistance . , [3]	80000 ohm	Plate Resistance . , ... 80, 000 80,000 ohms
Transconductance [1]	3400 uS	Transconductance . . . 3400 3900 umhos
Transconductance [2]	3900 uS	Transconductance . . . 3400 3900 umhos
Load Resistance , ... « [1]	6000 ohm	Load Resistance , ... « . . 6000 6000 ohms
Load Resistance , ... « [2]	6000 ohm	Load Resistance , ... « . . 6000 6000 ohms
Power Output . , [1]	1 W	Power Output . , ... 1.0 2.1 watts
Power Output . , [2]	2.1 W	Power Output . , ... 1.0 2.1 watts
Total Distortion [1]	7	Total Distortion 7 8 %
Total Distortion [2]	8	Total Distortion 7 8 %
Heater Voltage «	6.3 V	Heater Voltage « . . . 6.3 volts
Plate Supply Voltage	130 V	Plate Supply Voltage 130 volts
Grid No [1]	2 V	Grid No 2 Supply Voltage 130 volts
Grid No [2]	130 V	Grid No 2 Supply Voltage 130 volts
Cathode Bias Resistor	200 ohm	Cathode Bias Resistor 200 chms
Heater Current [1]	320 mA	Heater Current 320 360 400 milliamps
Heater Current [2]	360 mA	Heater Current 320 360 400 milliamps

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current [3]	400 mA	Heater Current 320 360 400 milliamps
Plate Current e e e e [1]	16 mA	Plate Current e e e e 16 23 30 milliamps
Plate Current e e e e [2]	23 mA	Plate Current e e e e 16 23 30 milliamps
Plate Current e e e e [3]	30 mA	Plate Current e e e e 16 23 30 milliamps



SOURCE OPERATING CONDITIONS

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1965 Ericsson Longlife

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

1965 ERICSSON LONGLIFE Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate supply voltage	130 V	ClassA
Screen-grid supply voltage	130 V	ClassA
Cathode bias resistor	200 Ohm	ClassA
Plate current	23 mA	ClassA
Screen-grid current	2 mA	ClassA
Load resistance	6000 Ohm	ClassA
Power output	1 W	ClassA
Total harmonic distortion	7 %	ClassA
Plate supply voltage	180 V	ClassA
Screen-grid supply voltage	180 V	ClassA
Plate current	32.5 mA	ClassA
Load resistance	8000 Ohm	ClassA;Va=180V
Power output	2.1 W	ClassA;Va=180V
Transconductance minimum	2600 uS	—
Transconductance maximum	4200 uS	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3400 μ S	ClassA
Plate resistance	0.08 M Ω m	ClassA
Transconductance	3900 μ S	ClassA;V _a =180V



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X LM Ericsson

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

196X LM ERICSSON

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	360 mA	—
Plate resistance	200 Ω m	—
Amplification factor	2	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	220 V	—
Maximum screen voltage	220 V	—
Maximum plate dissipation	9 W	—

TUBE TINKER

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and their source documents.

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