



ELECTRONIC TUBE REFERENCE

6083

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Power pentode designed for radio-frequency transmitting, Class-C power amplification, oscillation, or frequency-multiplier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 1.35 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
AMPLIFICATION FACTOR	6.7
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	45 W
MAXIMUM CATHODE CURRENT	1.5 A
<i>Published promoted ratings/characteristics captured where applicable; additional source values preserved in parameter rows.</i>	

Radiation-cooled low-voltage, high-current pentode for Class-C RF power service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full ratings	60 MHz	—
Maximum signal plate input	180 W	ClassB
Maximum signal screen-grid input	7 W	ClassB
Peak cathode current maximum	1.5 A	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	6.7	—
Maximum frequency	60 MHz	—
Grid-to-plate capacitance	0.1 pF	—
Grid-to-filament capacitance	22.5 pF	—
Plate-to-filament capacitance	11 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	45 W	—
Plate voltage	1000 V	ClassC
Plate current	170 mA	ClassC
Power output	132 W	ClassC
Grid voltage	-120 V	ClassC
Grid current	5 mA	ClassC
Screen voltage	250 V	ClassC



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	1000 V	RFPowerAmplifier
Plate current	170 mA	RFPowerAmplifier
Power output	132 W	RFPowerAmplifier
Control-grid voltage	-120 V	RFPowerAmplifier
Grid current	5 mA	RFPowerAmplifier
Screen voltage	250 V	RFPowerAmplifier
Maximum frequency at full input	60 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.1 pF	Section1
Input capacitance	22.5 pF	Section1
Output capacitance	11 pF	Section1

TUBE TINKER

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and their source documents.

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