

ELECTRONIC TUBE REFERENCE

6156

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Beam-power tube intended for RF transmitting and power-amplifier service, combining moderate plate dissipation with useful high-frequency performance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 14.1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
AMPLIFICATION FACTOR	5.1
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM CATHODE CURRENT	2.6 A
Published promoted ratings/characteristics captured where applicable; additional source values preserved in parameter rows.	

Low-drive transmitting tetrode with sintered-glass base; an improved version of the 4-250A/5D22 family.



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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full ratings	75 MHz	—
Reduced-rating frequency	120 MHz	—
Peak cathode current maximum	2.6 A	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance maximum	0.11 pF	—



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 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	6	—
Maximum frequency	75 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	250 W	—
Plate voltage	3500 V	ClassC
Plate current	345 mA	ClassC
Power output	800 W	ClassC
Grid voltage	-500 V	ClassC
Grid current	20 mA	ClassC
Screen voltage	600 V	ClassC



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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	3000 V	RFPowerAmplifier
Plate current	345 mA	RFPowerAmplifier
Power output	800 W	RFPowerAmplifier
Control-grid voltage	-180 V	RFPowerAmplifier
Grid current	10 mA	RFPowerAmplifier
Screen voltage	500 V	RFPowerAmplifier
Maximum frequency at full input	75 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.12 pF	Section1
Input capacitance	12.9 pF	Section1
Output capacitance	4.5 pF	Section1