

ELECTRONIC TUBE REFERENCE

6075

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Water-cooled low-drive HF power tetrode for high-power FM and television broadcast transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 32.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.019 S
AMPLIFICATION FACTOR	8.5
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	2000 W
MAXIMUM CATHODE CURRENT	7 A
Published promoted ratings/characteristics captured where applicable; additional source values preserved in parameter rows.	

6075 is a Tetrode device. Water-cooled low-drive HF tetrode designed for FM and television transmitter power-amplifier 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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full ratings	220 MHz	—
Anode dissipation capability	2 kW	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance maximum	0.35 pF	—
Input capacitance	23.5 pF	—
Output capacitance	8.4 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	7.5	—
Maximum frequency full input	220 MHz	—
Maximum frequency high-voltage condition	75 MHz	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.2 pF	—
Input capacitance	24 pF	—
Output capacitance	8.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	3000 W	—
Plate voltage	4000 V	ClassC
Plate current	1.1 A	ClassC
Power output	3300 W	ClassC
Grid voltage	-250 V	ClassC
Grid current	70 mA	ClassC
Screen voltage	800 V	ClassC
Plate voltage	5000 V	ClassC HighVoltage
Power output	4100 W	ClassC HighVoltage



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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	4000 V	RFAmplifier
Plate current	1.1 A	RFAmplifier
RF output power	3300 W	RFAmplifier
Grid voltage	-250 V	RFAmplifier
Grid current	70 mA	RFAmplifier
Screen voltage	800 V	RFAmplifier

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full input rating	220 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	24 pF	—
Output capacitance	8.5 pF	—

TUBE TINKER

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