

ELECTRONIC TUBE REFERENCE

7377

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Radiation-cooled twin tetrode designed for push-pull Class-C service. Its paired high-frequency sections provide balanced RF power amplification in compact professional equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	6.3 V / 600 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.0105 S
AMPLIFICATION FACTOR	28
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	225 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	1.75 W
Representative row for two electrically identical transmitting-tetrode sections.	

7377 is listed in the supplied Amperex material as a radiation-cooled twin tetrode for push-pull Class-C service. Published electrical ratings and operating data were captured from the supplied table.



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
Heater/Filament Voltage	6.3 V	—
Heater/Filament Current	600 mA	—
Maximum Plate Voltage	400 V	—
Maximum Plate Dissipation	10 W	—
Maximum Screen Voltage	250 V	—
Maximum Screen Dissipation	1.75 W	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	10500 μ S	—
Amplification Factor	28	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Mazda

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

1960 MAZDA

Section 1 · Tetrode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1 Anode Capacitance	0.145 pF	—
InputCapacitancePerSection	4.5 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OutputCapacitancePerSection	1.35 pF	—
PushPullInputCapacitance	2.4 pF	—
PushPullOutputCapacitance	0.82 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
NominalPlateVoltage	250 V	—
NominalScreenVoltage	200 V	—
NominalPlateCurrent	25 mA	—
Maximum Frequency	960 MHz	—



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	12.6 V	Published rating
Heater/filament current	300 mA	Published rating
Amplification factor	28	ClassC PushPull

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	8 W	EachUnit
Plate voltage	250 V	ClassC PushPull
Plate current	35 mA	ClassC PushPull
Power output	15 W	ClassC PushPull
Maximum frequency	1000 MHz	ClassC PushPull



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