

ELECTRONIC TUBE REFERENCE

F7207

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled ITT power triode designed for high-power modulator circuits. Approximately 17 kW plate dissipation, 10 kV capability, and multiampere plate current support substantial transmitter modulation service.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	17000 W
Published maximum ratings and characteristics audited; remaining values retained densely in parameter table.	

The F7207 is a high-power triode intended for radio-frequency power service and class-AB audio-frequency power-amplifier or modulator applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
modulator circuits., The anode is air-cooled and capable of	17	modulator circuits., The anode is air-cooled and capable of 17 kilowatts
Filament Voltage	7 V	Filament Voltage 7.0 volts
Fillament Current	110 A	Fillament Current 110 amperes
Grid-Plate	42	Grid-Plate 42 ppt
Plate~-Filament	12	Plate~-Filament 12 puf
Maximum Incoming Air Temperature	45	Maximum Incoming Air Temperature 45 °c
Plate Dissipation - kw [1]	17 kW	Plate Dissipation - kw 17 14 12
Plate Dissipation - kw [2]	14 kW	Plate Dissipation - kw 17 14 12
Plate Dissipation - kw [3]	12 kW	Plate Dissipation - kw 17 14 12
Maximum Glass Temperature	180	Maximum Glass Temperature 180 °c
D=C Plate Voltage	10 kV	D=C Plate Voltage 10 kv
Maxiwum S8ignal D-C Plate Current*	5 A	Maxiwum S8ignal D-C Plate Current* 5 amperes
Maximum Signal Plate Input#	30 kW	Maximum Signal Plate Input# 30 kw
Plate Dissipation¥*	17 kW	Plate Dissipation¥* 17 kw
D-C Plate Voltage [1]	5000 V	D-C Plate Voltage 5000 T000 9000 volts
D-C Plate Voltage [2]	7000 V	D-C Plate Voltage 5000 T000 9000 volts
D-C Plate Voltage [3]	9000 V	D-C Plate Voltage 5000 T000 9000 volts
D~C Grid Voltage = [1]	900 V	D~C Grid Voltage =900 -1400 -1800 volts
D~C Grid Voltage = [2]	-1400 V	D~C Grid Voltage =900 -1400 -1800 volts
D~C Grid Voltage = [3]	-1800 V	D~C Grid Voltage =900 -1400 -1800 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak A-F Grid-to-Grid Voltage [1]	1760 V	Peak A-F Grid-to-Grid Voltage 1760 2740 3500 volts
Peak A-F Grid-to-Grid Voltage [2]	2740 V	Peak A-F Grid-to-Grid Voltage 1760 2740 3500 volts
Peak A-F Grid-to-Grid Voltage [3]	3500 V	Peak A-F Grid-to-Grid Voltage 1760 2740 3500 volts
Zero Signal D-C Plate Current [1]	800 mA	Zero Signal D-C Plate Current 0.8 0.5 0.5 amperes
Zero Signal D-C Plate Current [2]	500 mA	Zero Signal D-C Plate Current 0.8 0.5 0.5 amperes
Zero Signal D-C Plate Current [3]	500 mA	Zero Signal D-C Plate Current 0.8 0.5 0.5 amperes
Maximum Signal D-C Plate Current [1]	2.6 A	Maximum Signal D-C Plate Current 2,6 3.2 3.2 amperes
Maximum Signal D-C Plate Current [2]	3.2 A	Maximum Signal D-C Plate Current 2,6 3.2 3.2 amperes
Maximum Signal D-C Plate Current [3]	3.2 A	Maximum Signal D-C Plate Current 2,6 3.2 3.2 amperes
Effective Load Resistance Plate-to-Plate [1]	3700	Effective Load Resistance Plate-to-Plate 3700 4600 5800 ohms
Effective Load Resistance Plate-to-Plate [2]	4600	Effective Load Resistance Plate-to-Plate 3700 4600 5800 ohms
Effective Load Resistance Plate-to-Plate [3]	5800	Effective Load Resistance Plate-to-Plate 3700 4600 5800 ohms
Maximum Signal Driving Power [1]	0 W	Maximum Signal Driving Power 0 0 0 watts
Maximum Signal Power Out T.h [1]	13.75 W	Maximum Signal Power Out T.h 13.75 18 xw
Maximum Signal Power Out T.h [2]	18 W	Maximum Signal Power Out T.h 13.75 18 xw

TUBE TINKER

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