



ELECTRONIC TUBE REFERENCE

F5669

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled companion to the F5668 industrial RF triode. Approximately 10 kW plate dissipation and 14 kV capability provide substantial RF-heating oscillator power without requiring a water-cooling system.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	22 V / 60 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	14000 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM CATHODE CURRENT	9.4 A
<i>Published maximum ratings and characteristics audited; remaining numeric data retained densely in parameter table.</i>	

Three-electrode RF power tube with forced-air cooling; maximum ratings and typical operation follow the F-5668 except for 10 kW plate dissipation.

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
Published value	10 W	10 Kilowatts Plate Dissipation
p Filament Voltage	22 V	p Filament Voltage 22 Volts
) Filament Current	60 A	) Filament Current 60 Amperes
p Filament Starting Current	120 mA	p Filament Starting Current 120 Amperes max.
p Filament Cold Resistance	31	p Filament Cold Resistance .031 Ohms
p Peak Cathode Current	9.4 A	p Peak Cathode Current 9.4 Amperes
Grid-Plate	31	Grid-Plate 31 uuf
Grid-Filament	20	Grid-Filament 20 puf
Plate-Filament	2	Plate-Filament 2 puf
Air Temperature	45	Air Temperature 45° C
Temperature*	160	Temperature* 160° C
) Max. Anode Temp	230	) Max. Anode Temp. 230° C
tion of plate dissipation to	10 kW	tion of plate dissipation to 10' KW, Maximum Ratings
Frequency [1]	5	Frequency 5 125 20 Megacycles
Frequency [2]	125	Frequency 5 125 20 Megacycles
Frequency [3]	20	Frequency 5 125 20 Megacycles
Published value	10 W	10 Kilowatts Plate Dissipation and Plate Input

1962 ITT Industrial and Transmitting Tubes

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

1962 ITT INDUSTRIAL AND TRANSMITTING TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum full-rating frequency	5 MHz	—
Cooling method	forced air	—