



ELECTRONIC TUBE REFERENCE

F6801

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled industrial power triode with approximately 10 kW continuous anode-dissipation capability, designed for RF oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 107 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	19.5
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	10000 W
<i>Published maximum ratings and characteristics audited; remaining numeric data retained densely in parameter table.</i>	

Three-electrode industrial oscillator tube with a forced-air-cooled anode capable of 10 kW continuous-commercial-service dissipation and a thoriated-tungsten filament.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

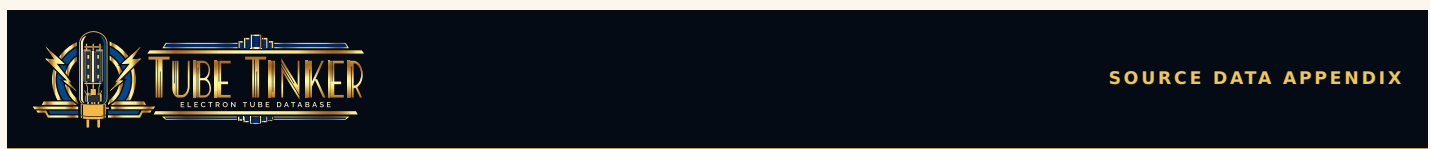
Published test conditions and operating points. Values on this page are preserved as reported by this source.

1962 ITT

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
r	6601 W	r-6601 POWER
oscillator. The anode is capable of dissipating	10	oscillator. The anode is capable of dissipating 10 kilowatts during
Filament Voltage T	5 V	Filament Voltage T.5 volts
Filament Current	107 A	Filament Current 107 amperes
Filament Starting Current	300 A	Filament Starting Current 300 max., amperes
Filament Cold Resistance	1	Filament Cold Resistance .01 ohms
Filament Hesting Time	15	Filament Hesting Time 15 seconds min.
Grid-Plate	27	Grid-Plate 27 uuf
Grid-Frilament	25	Grid-Frilament 25 puf
Plate-Filament	1.25	Plate-Filament 1.25 puf
and to continue for	3 W	and to continue for 3 minutes after removal of filament power,
Radiator Temperature	200	Radiator Temperature 200 max, °C
Glass Temperature (at hottest part), Note [1]	1	Glass Temperature (at hottest part), Note 1 180 mx. °C
Glass Temperature (at hottest part), Note [2]	180	Glass Temperature (at hottest part), Note 1 180 mx. °C
POWER	-2 W	POWER -2-
D-C Plate Voltage	15000 V	D-C Plate Voltage 15,000 max. volts
D-C Grid Voltage	-1800 V	D-C Grid Voltage -1800 max. volts
D-C Plate Current	3.5 A	D-C Plate Current 3.5 max. amperes
Plate Input	40	Plate Input 40 max. kilowatts
Plate Dissipation	10 W	Plate Dissipation 10 max. kilowatts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-C Plate Voltage	12500 V	D-C Plate Voltage 12,500 volts
D-C Grid Voltage	-1200 V	D-C Grid Voltage -1200 volts
Peak R~F Grid Voltage	2000 V	Peak R~F Grid Voltage 2000 volts
D-C Plate Current	3 A	D-C Plate Current 3.0 amperes
D~C Grid Current, approximate	43 A	D~C Grid Current, approximate 43 amperes
Driving Power, approximate	850 W	Driving Power, approximate 850 watts
Power Output, approximate	28 W	Power Output, approximate 28 kilowatts
I'	-6801 W	I'-6801 POWER TRIODE



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	27 pF	—
GridFilamentCapacitance	25 pF	—
PlateFilamentCapacitance	1.25 pF	—
FilamentStartingCurrent	300 A	—
FilamentColdResistance	0.01 ohm	—
FilamentHeatingTime	15 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Grid Voltage	-1000 V	ClassC
Maximum DC Plate Current	3.5 A	ClassC
Maximum DC Grid Current	500 mA	ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Input	40 kW	ClassC
Typical Power Output	28 kW	ClassC

TUBE TINKER

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and their source documents.

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