



ELECTRONIC TUBE REFERENCE

F6366

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled industrial oscillator triode with wide electrode spacing and approximately 3 kW anode dissipation for RF power generation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	11 V / 29 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	5500 V
MAXIMUM PLATE DISSIPATION	3000 W
<i>Published maximum ratings and characteristics audited; remaining numeric data retained densely in parameter table.</i>	

Three-electrode industrial oscillator tube with wide element spacing, no internal insulators and a 3 kW forced-air-cooled anode.

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	3 W	3 Kilowatts Plate Dissipation
of dissipating	3	of dissipating 3 kilowatts. The cathode is a thoriated
tungsten filament. Maximum ratings apply up to	30	tungsten filament. Maximum ratings apply up to 30 meg-
p Filament Current	29 A	p Filament Current 29 Amperes
Grid-Plate	13	Grid-Plate 13 puf
Grid-Filament	145	Grid-Filament 145 puf
Plate-Filament	1.7	Plate-Filament 1.7 puf
Air Temperature	45	Air Temperature 45° C
Temperature	150	Temperature 150° C
Type F	6366	Type F-6366 Frequency
Published value	3 V	3 Kilowatts Plate Dissipation Voltage and
DC Plate Voltage [1]	4500 V	DC Plate Voltage 4,500 5,000 Volis
DC Plate Voltage [2]	5000 V	DC Plate Voltage 4,500 5,000 Volis
DC Grid Voltage [1]	-500 V	DC Grid Voltage —500 — 600 Volts
DC Grid Voltage [2]	600 V	DC Grid Voltage —500 — 600 Volts
Maximum Ratings, Absolute Values Peak R-F Grid Voltage [1]	1100 V	Maximum Ratings, Absolute Values Peak R-F Grid Voltage 1,100 1,300 Volts
Maximum Ratings, Absolute Values Peak R-F Grid Voltage [2]	1300 V	Maximum Ratings, Absolute Values Peak R-F Grid Voltage 1,100 1,300 Volts
DC Plate Voltage [1]	5500 V	DC Plate Voltage 5,500 Volts DC Plate Current 1.0 1.2 Amperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Voltage [2]	1 V	DC Plate Voltage 5,500 Volts DC Plate Current 1.0 1.2 Amperes
DC Plate Voltage [3]	1.2 V	DC Plate Voltage 5,500 Volts DC Plate Current 1.0 1.2 Amperes
DC Grid Voltage –	1500 V	DC Grid Voltage — 1,500 Volts DC Grid Current,
DC Plate Current i	3 A	DC Plate Current i.3 Amperes
Driving Power, Approximate [1]	120 W	Driving Power, Approximate 120 160 Watts
Driving Power, Approximate [2]	160 W	Driving Power, Approximate 120 160 Watts
DC Grid Current	150 mA	DC Grid Current 0.15 Amperes
Power Output, Approximate [1]	3 W	Power Output, Approximate 3 4 Kilowatts
Power Output, Approximate [2]	4 W	Power Output, Approximate 3 4 Kilowatts
Plate Input	7	Plate Input 7 Kilowatts
Plate Dissipation [1]	3 W	Plate Dissipation 3 Kilowatts envelope does not exceed 15 per cent of the carrier conditions.
Plate Dissipation [2]	15 W	Plate Dissipation 3 Kilowatts envelope does not exceed 15 per cent of the carrier conditions.
Published value [1]	3	3 = GRID — BLACK LEAD 6" LONG
Published value [2]	6	3 = GRID — BLACK LEAD 6" LONG
Published value	5	5 = GRID — BLACK TERMINAL
equipment design	3 W	equipment design. 3 Kilowatts Plate Dissipation
Published value	10 W	10 POWER TRIODE
GRID CHARACTERISTICS	3	GRID CHARACTERISTICS 3
Published value	3 W	3 Kilowatts Plate Dissipation designers.
Published value	1400 W	1400 POWER TRIODE



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	30 MHz	—
Cooling method	forced air	—