



ELECTRONIC TUBE REFERENCE

F6367

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled ITT transmitting triode for professional RF power service. Approximately 3 kW plate dissipation and multi-kilovolt capability support substantial transmitter output with full ratings through the HF range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	13 V / 36 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	6200 V
MAXIMUM PLATE DISSIPATION	3000 W
Published maximum ratings and characteristics audited; remaining numeric data retained densely in parameter table.	

Three-electrode power tube for modulator, amplifier and oscillator service, with wide element spacing 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
capable of dissipating	3	capable of dissipating 3 kilowatts. The cathode is a thor-
) Filament Voltage	13 V	) Filament Voltage 13.0 Volts
p Filament Current	36 A	p Filament Current 36 Amperes
Grid-Plate	14.7	Grid-Plate 14.7 puf
Grid-Filament	14.5	Grid-Filament 14.5 puf
Plate-Filament	1.7	Plate-Filament 1.7 upuf
Air Temperature	45	Air Temperature 45° C
Temperature	150	Temperature 150° C
Type F	6367	Type F-6367 Frequency
Published value	3 V	3 Kilowatts Plate Dissipation Voltage and
DC Plate Voltage	6200 V	DC Plate Voltage 6,200 Volts Maximum Ratings, Absolute Values
Maximum Signal DC Plate Current* [1]	2 V	Maximum Signal DC Plate Current* 2.0 Amperes DC Plate Voltage 5,000 Volts
Maximum Signal DC Plate Current* [2]	5000 V	Maximum Signal DC Plate Current* 2.0 Amperes DC Plate Voltage 5,000 Volts
Maximum Signal Plate Input* [1]	6	Maximum Signal Plate Input* 6.0 Kilowatts DC Grid Voltage — 1,500 Volts
Maximum Signal Plate Input* [2]	1500	Maximum Signal Plate Input* 6.0 Kilowatts DC Grid Voltage — 1,500 Volts
Plate Dissipation* [1]	3 A	Plate Dissipation* 3 Kilowatts DC Plate Current 1.5 Amperes
Plate Dissipation* [2]	1.5 A	Plate Dissipation* 3 Kilowatts DC Plate Current 1.5 Amperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Grid Current	200 mA	DC Grid Current 0.2 Amperes
Typical Operation Plate Input	7.5	Typical Operation Plate Input 7.5 Kilowatts
{Unless otherwise specified, values are for two tubes) Plate Dissipation	2 W	{Unless otherwise specified, values are for two tubes) Plate Dissipation 2 Kilowatts
DC Plate Voltage	5000 V	DC Plate Voltage 5,000 Volts
DC Grid Voltage –	150 V	DC Grid Voltage — 150 Volts Typical Operation
Peak A-F Grid-to-Grid Voltage [1]	1260 V	Peak A-F Grid-to-Grid Voltage 1,260 VVolts. DC Plate Voltage 5,000 Volts
Peak A-F Grid-to-Grid Voltage [2]	5000 V	Peak A-F Grid-to-Grid Voltage 1,260 VVolts. DC Plate Voltage 5,000 Volts
Zero Signal DC Plate Current [1]	0.4 V	Zero Signal DC Plate Current 0.4 Amperes DC Grid Voltage — 800 Volts
Zero Signal DC Plate Current [2]	800 V	Zero Signal DC Plate Current 0.4 Amperes DC Grid Voltage — 800 Volts
Maximum Signal DC Plate Current [1]	2.25 V	Maximum Signal DC Plate Current 2.25 Amperes Peak R-F Grid Voltage 1,370 Volts
Maximum Signal DC Plate Current [2]	1370 V	Maximum Signal DC Plate Current 2.25 Amperes Peak R-F Grid Voltage 1,370 Volts
Effective Load Resistance, DC Plate Current	740 mA	Effective Load Resistance, DC Plate Current 0.74 Amperes
Plate to Plate [1]	4000 mA	Plate to Plate 4,000 Ohms DC Grid Current, Approximate 0.10 Amperes
Plate to Plate [2]	0.1 mA	Plate to Plate 4,000 Ohms DC Grid Current, Approximate 0.10 Amperes
Maximum Signal Driving Power, Driving Power, Approximate	130 W	Maximum Signal Driving Power, Driving Power, Approximate 130 Watts
Power Output, Approximate	2.7 W	Power Output, Approximate 2.7 Kilowatts
modulation factor of [1]	1 V	modulation factor of 1.0) DC Plate Voltage 6,200 Volts
modulation factor of [2]	6200 V	modulation factor of 1.0) DC Plate Voltage 6,200 Volts
Maximum Ratings, Absolute Values DC Grid Voltage –	1500 V	Maximum Ratings, Absolute Values DC Grid Voltage — 1,500 Volts
DC Plate Current	2 A	DC Plate Current 2.0 Amperes
DC Plate Voltage	6200 V	DC Plate Voltage 6,200 Volts
DC Plate Current	1.5 A	DC Plate Current 1.5 Amperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Input	12	Plate Input 12 Kilowatts
Plate Input	4.5	Plate Input 4.5 Kilowatts
Plate Dissipation	3 W	Plate Dissipation 3 Kilowatts
DC Plate Voltage	6000 V	DC Plate Voltage 6,000 Volts
DC Plate Voltage [1]	6000 V	DC Plate Voltage 6,000 Volts DC Grid Voltage — 800 Volts
DC Plate Voltage [2]	800 V	DC Plate Voltage 6,000 Volts DC Grid Voltage — 800 Volts
DC Grid Voltage — [1]	160 V	DC Grid Voltage — 160 Volts Peak R-F Grid Voltage 1,510 Volts
DC Grid Voltage — [2]	1510 V	DC Grid Voltage — 160 Volts Peak R-F Grid Voltage 1,510 Volts
Peak R-F Grid Voltage [1]	300 V	Peak R-F Grid Voltage 300 Volts DC Plate Current 1.4 Amperes
Peak R-F Grid Voltage [2]	1.4 V	Peak R-F Grid Voltage 300 Volts DC Plate Current 1.4 Amperes
DC Plate Current [1]	0.56 mA	DC Plate Current 0.56 Amperes DC Grid Current, Approximate 0.16 Amperes
DC Plate Current [2]	0.16 mA	DC Plate Current 0.56 Amperes DC Grid Current, Approximate 0.16 Amperes
DC Grid Current, Approximate [1]	0 mA	DC Grid Current, Approximate 0.0 Amperes Driving Power, Approximate 225 Watts
DC Grid Current, Approximate [2]	225 mA	DC Grid Current, Approximate 0.0 Amperes Driving Power, Approximate 225 Watts
Driving Power, Approximate** [1]	47 W	Driving Power, Approximate** 47 Watts Power Output, Approximate 6 Kilowatts
Driving Power, Approximate** [2]	6 W	Driving Power, Approximate** 47 Watts Power Output, Approximate 6 Kilowatts
**At crest of audio-frequency cycle with modulation factor of [1]	1	**At crest of audio-frequency cycle with modulation factor of 1.0 envelope does not exceed 15 per cent of the carrier conditions.
**At crest of audio-frequency cycle with modulation factor of [2]	15	**At crest of audio-frequency cycle with modulation factor of 1.0 envelope does not exceed 15 per cent of the carrier conditions.
equipment design	3 W	equipment design. 3 Kilowatts Plate Dissipation
Published value	9 W	9 : g POWER TRIODE
and Helical type filament con- Type F'	6367	and Helical type filament con- Type F'6367

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
tribute to rugged tube design	3 W	tribute to rugged tube design. 3 Kilowatts Plate Dissipation
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



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum full-rating frequency	30 MHz	—
Cooling method	forced air	—

TUBE TINKER

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