



ELECTRONIC TUBE REFERENCE

F6925

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Medium-mu ITT power triode designed for RF service. Approximately 3 kW plate dissipation and multi-kilovolt plate capability support substantial Class C amplifier operation and professional transmitter power.

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	17
MAXIMUM PLATE VOLTAGE	6500 V
MAXIMUM PLATE DISSIPATION	3000 W
Published maximum ratings and characteristics audited; remaining numeric data retained densely in parameter table.	

Triode designed for modulator, radio-frequency amplifier, and oscillator service, with a heavy-wall forced-air-cooled anode rated for 3 kW continuous-commercial-service 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
TUBE DATA	6525 W	TUBE DATA 6525 POWER TRIODE
Filament Voltage	13 V	Filament Voltage 13 volts
Filament Current	36 A	Filament Current 36 amperes
Grid-Plate	21	Grid-Plate 21 ppf
Grid-Filament	18	Grid-Filament 18 upf
Plate-Filament	1.9	Plate-Filament 1.9 puf
Plate Dissipation - kw [1]	3 kW	Plate Dissipation - kw 3.0 2.4 1.8
Plate Dissipation - kw [2]	2.4 kW	Plate Dissipation - kw 3.0 2.4 1.8
Plate Dissipation - kw [3]	1.8 kW	Plate Dissipation - kw 3.0 2.4 1.8
Maximum Glass Temperature	180	Maximum Glass Temperature 180°f c
D-C Plate Voltage	6.5 kV	D-C Plate Voltage 6.5 max. kv
D-C Grid Voltage	-1.2 kV	D-C Grid Voltage -1.2 max, kv
D-C Plate Current	2 A	D-C Plate Current 2.0 max. amperes
D-C Grid Current	250 A	D-C Grid Current 250 max. amperes
Plate Input	12 kW	Plate Input 12 max, kw
Plate Dissipation	3 kW	Plate Dissipation 3 mwax., kw
D-C Plate Voltage [1]	2500 V	D-C Plate Voltage 2500 4000 6000 volts
D-C Plate Voltage [2]	4000 V	D-C Plate Voltage 2500 4000 6000 volts
D-C Plate Voltage [3]	6000 V	D-C Plate Voltage 2500 4000 6000 volts
D~-C Grid Voltage [1]	-600 V	D~-C Grid Voltage -600 -1000 volts
D~-C Grid Voltage [2]	-1000 V	D~-C Grid Voltage -600 -1000 volts
Peak R-F Grid Voltage [1]	1050 V	Peak R-F Grid Voltage 1050 1300 1500 volts
Peak R-F Grid Voltage [2]	1300 V	Peak R-F Grid Voltage 1050 1300 1500 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak R-F Grid Voltage [3]	1500 V	Peak R-F Grid Voltage 1050 1300 1500 volts
Peak R-F Plate Voltage [1]	1800 V	Peak R-F Plate Voltage 1800 3000 5000 volts
Peak R-F Plate Voltage [2]	3000 V	Peak R-F Plate Voltage 1800 3000 5000 volts
Peak R-F Plate Voltage [3]	5000 V	Peak R-F Plate Voltage 1800 3000 5000 volts
D-C Plate Current [1]	1.27 A	D-C Plate Current 1.27 1.6 1.6 amperes
D-C Plate Current [2]	1.6 A	D-C Plate Current 1.27 1.6 1.6 amperes
D-C Plate Current [3]	1.6 A	D-C Plate Current 1.27 1.6 1.6 amperes
D-C Grid Current [1]	233 A	D-C Grid Current 233 .230 .210 amperes
D-C Grid Current [2]	230 A	D-C Grid Current 233 .230 .210 amperes
D-C Grid Current [3]	210 A	D-C Grid Current 233 .230 .210 amperes
Driving Power, approx [1]	245 W	Driving Power, approx. 245 300 315 watts
Driving Power, approx [2]	300 W	Driving Power, approx. 245 300 315 watts
Driving Power, approx [3]	315 W	Driving Power, approx. 245 300 315 watts
Power Output, approx [1]	215 kW	Power Output, approx. 2,15 b T.25 kw
Power Output, approx [2]	25 kW	Power Output, approx. 2,15 b T.25 kw
Lo2 TYPES F [1]	6925 W	Lo2 TYPES F-6925, F-6926 & F-6926J POWER TRIODES
Lo2 TYPES F [2]	6926 W	Lo2 TYPES F-6925, F-6926 & F-6926J POWER TRIODES
Lo2 TYPES F [3]	6926 W	Lo2 TYPES F-6925, F-6926 & F-6926J POWER TRIODES
GRID TERM. --- BILACK [1]	1.5	GRID TERM. --- BILACK 1.500%.125 §ia,
GRID TERM. --- BILACK [2]	125	GRID TERM. --- BILACK 1.500%.125 §ia,
TYPE F	6925 W	TYPE F-6925 POWER TRIODE



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1962 ITT Industrial and Transmitting Tubes

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1962 ITT INDUSTRIAL AND TRANSMITTING TUBES

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	21 pF	—
GridFilamentCapacitance	18 pF	—
PlateFilamentCapacitance	1.9 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Grid Voltage	-1.2 kV	ClassC
Maximum DC Plate Current	2 A	ClassC
Maximum DC Grid Current	250 mA	ClassC
Maximum Plate Input	12 kW	ClassC
Typical Power Output	7.25 kW	ClassC

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