



ELECTRONIC TUBE REFERENCE

F7C25

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Medium-mu ITT power triode for Class C RF amplifier service. Approximately 2.5 kW plate dissipation, multi-kilovolt operation, and useful service to roughly 50 MHz provide substantial professional transmitter power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	11 V / 28 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	5000 V
MAXIMUM PLATE DISSIPATION	2500 W
MAXIMUM CATHODE CURRENT	10 A
Cooling: Forced Air	

Three-electrode industrial power triode intended for severe radio-frequency heating service. The forced-air-cooled anode is rated for 2.5 kW 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	25	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak cathode current	10 A	—
Maximum plate voltage	5000 V	—
Maximum plate dissipation	2500 W	—
Maximum frequency	50 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	13.2 pF	—
Grid-filament capacitance	14.5 pF	—
Plate-filament capacitance	1.7 pF	—



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	13.2 pF	—
GridFilamentCapacitance	14.5 pF	—
PlateFilamentCapacitance	1.1 pF	—
FilamentStartingCurrent	56 A	—
FilamentColdResistance	0.047 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Grid Voltage	-1500 V	ClassC
Maximum DC Plate Current	1.3 A	ClassC
Maximum DC Grid Current	150 mA	ClassC
Maximum Plate Input	6.5 kW	ClassC
Typical Power Output	4 kW	ClassC

TUBE TINKER

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