



ELECTRONIC TUBE REFERENCE

F8104

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

ITT water-cooled RF power triode for amplifier and oscillator service. Approximately 8 kW plate dissipation and 8 kV capability provide substantial continuous transmitter power with direct water cooling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	15 V / 36 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	8000 W

The ITT F8104 is a water-cooled rf power triode for amplifier and oscillator service.



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	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	0.2 pF	—
Grid-filament capacitance	16.3 pF	—
Plate-filament capacitance	1.9 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	8000 V	—
Maximum plate dissipation	8000 W	—
Water flow	3.5 gpm	—
Maximum water pressure	80 psi	—

TUBE TINKER

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and their source documents.

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