



ELECTRONIC TUBE REFERENCE

F8104J

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

ITT water-cooled RF power triode in the F8104 family for amplifier and oscillator service. Approximately 8 kW plate dissipation and multi-kilovolt capability support substantial communications or industrial RF power.

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 F8104J is a water-cooled rf power triode for amplifier and oscillator service.

SOURCE OPERATING CONDITIONS

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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