

ELECTRONIC TUBE REFERENCE

4X250F

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

26.5 V heater variant of the 4X250B VHF/UHF transmitting tetrode family.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	26.5 V / 500 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	250 mA
Promoted from printed maximum-rating and general-characteristics tables.	

26.5 V heater variant of the forced-air-cooled 4X250B external-anode tetrode family.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1962 EIMAC

Section 1 · Tetrode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate S 0.04 puf)	0.04 pF	—
Output - - - - - . 4.7 puf	4.7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	2000 V	—
Maximum screen voltage	300 V	—
Maximum plate dissipation	250 W	—
Maximum screen dissipation	12 W	—
Maximum grid dissipation	2 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 AMPEREX CONDENSED

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	2000 V	RFAmplifierOrOscillator; ClassC; Telegraphy
Plate current	250 mA	RFAmplifierOrOscillator; ClassC; Telegraphy

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RF output power	410 W	RF Amplifier Or Oscillator; Class C; Telegraphy
Grid voltage	-90 V	RF Amplifier Or Oscillator; Class C; Telegraphy
Grid current	12 mA	RF Amplifier Or Oscillator; Class C; Telegraphy
Maximum frequency at full input rating	500 MHz	—
Screen voltage	250 V	RF Amplifier Or Oscillator; Class C; Telegraphy

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.03 pF	—
Grid-to-filament/cathode capacitance	15.7 pF	—
Plate-to-filament/cathode capacitance	4.5 pF	—