



ELECTRONIC TUBE REFERENCE

8120

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled coaxial ceramic transmitting triode for plug-in RF amplifier, oscillator, and multiplier service. Approximately 500 W plate dissipation and useful operation to roughly 400 MHz provide substantial VHF/UHF transmitter power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3.4 V / 19 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	70
MAXIMUM PLATE DISSIPATION	500 W
<i>Forced-air-cooled coaxial ceramic transmitting triode for plug-in RF amplifier, oscillator and multiplier service.</i>	

Forced-air-cooled coaxial ceramic transmitting triode for plug-in RF amplifier, oscillator and multiplier service.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	2500 V	RFPower
Plate current	380 mA	RFPower
Power output	620 W	RFPower
Grid voltage	-70 V	RFPower
Grid current	160 mA	RFPower
Maximum frequency	400 MHz	RFPower
Additional published output figure	50 W	Published as 620 + 50

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	3.8 pF	—
Input capacitance	11 pF	—
Output capacitance	0.05 pF	—

TUBE TINKER

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and their source documents.

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