

ELECTRONIC TUBE REFERENCE

YJ1462

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Indirectly heated tunable coaxial pulse magnetron operating near 9.375 GHz, designed for pulsed microwave service with at least 28 kW output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	9000 V
MAXIMUM PLATE DISSIPATION	100 W
Pulse magnetron represented as Other; pulse anode and microwave data preserved as parameters. The scan renders the peak-anode-voltage maximum digit poorly; 9 kV is used from table context.	

Indirectly heated tunable coaxial pulse magnetron designed for operation around 9.375 GHz with 28 kW minimum pulse output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 AEG

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

1953 AEG

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage nominal	6.3 V	—
Heater current nominal	2 A	—
Preheating time	2–3 min	—
Frequency	9.355–9.395 GHz	—
Peak anode voltage	8.5 kV	—
Peak anode current	9 A	—
Duty factor	0.001	—
Pulse duration	1.5 us	—
Pulse repetition frequency	625 Hz	—
Average anode current	9 mA	—
Anode input power	77 W	—
Output power minimum	28 kW	—
Load VSWR	1.1	—
Pulling factor	3 MHz	—
Heater voltage maximum	7 V	—
Heater current maximum	2.3 A	—
Peak anode voltage maximum	9 kV	—
Peak anode current maximum	10 A	—
Peak anode dissipation maximum	90 kW	—
Average anode dissipation maximum	100 W	—
Anode voltage rise rate	90–180 kV/us	—

TUBE TINKER

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and their source documents.

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