

ELECTRONIC TUBE REFERENCE

8684

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Liquid-cooled high-power 915 MHz continuous-wave magnetron designed for industrial RF power generation, providing approximately 30 kW useful output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.5 V / 115 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	14000 V
MAXIMUM CATHODE CURRENT	3 A
915 MHz liquid-cooled magnetron.	

Liquid-cooled high-power 915 MHz magnetron for CW industrial RF power generation.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	12.5 V	—
Heater/filament current	115 A	—
Maximum anode voltage	14 kV	—
Maximum anode current	3 A	—
Typical anode voltage	12.6 kV	30kW
Typical anode current	2.8 A	30kW
Useful power output	30 kW	—
Efficiency	86 %	30kW
Minimum heating time	10 s	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Center frequency	915 MHz	±15MHz

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Liquid cooled	—
Focusing method	Electromagnet	—

TUBE TINKER

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and their source documents.

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