



ELECTRONIC TUBE REFERENCE

2J21

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Forced-air-cooled pulsed magnetron oscillator operating near 9.4 GHz with approximately 10 kW peak RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	13500 V
MAXIMUM PLATE DISSIPATION	180 W
MAXIMUM CATHODE CURRENT	10 A
<i>Published ratings and characteristics promoted where clearly applicable; additional source values retained as section parameters.</i>	

Forced-air-cooled pulsed magnetron oscillator operating near 9.4 GHz with approximately 10 kW peak RF output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Magnetron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal/representative value
Heater or filament current	1.3 A	Published nominal/representative value
Frequency range	9345–9405 MHz	Published
Magnetic field strength	2400 gauss	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	180 W	Published
Pulse duration	1 μ s	Published
Pulse repetition rate	1000 Hz	Published
Peak RF power output	10000 W	Published
Maximum duty cycle	0.002 fraction	Published