



ELECTRONIC TUBE REFERENCE

7111

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Member of the 7110 tunable X-band pulsed-magnetron family, differing chiefly in tuning-control arrangement while retaining high-power radar-frequency oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	13.75 V / 3.15 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	23000 V
MAXIMUM CATHODE CURRENT	12 A
<i>Published ratings/characteristics promoted from supplied datasheet.</i>	

Printed member of the 7110/7111/7112 tunable pulsed-magnetron family; differs chiefly in tuning-control arrangement.



SOURCE OPERATING CONDITIONS

1940 RCA

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

1940 RCA

Section 1 · Magnetron

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	9 V	Published nominal value
Heater or filament current	14.2 A	Published nominal/aggregate value
Frequency range	8500–9600 MHz	Published tuning range

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak RF power output	230000 W	Pulsed oscillator service



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 6 of 7

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

1971 RCA HB3 BINDER 6 OF 7

Section 1 · Magnetron

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Minimum	8500 MHz	Pulsed magnetron oscillator
Frequency Maximum	9600 MHz	Pulsed magnetron oscillator
Minimum Cathode Heating Time	2.5 min	Pulsed magnetron oscillator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Anode Voltage	23 kV	Pulsed magnetron oscillator
Maximum Pulse Duration	2.6 μ s	Pulsed magnetron oscillator
Maximum Rate of Rise of Voltage Pulse	200 kV/ μ s	Pulsed magnetron oscillator
Typical Peak Anode Voltage	22 kV	Pulsed magnetron oscillator
Typical Peak Power Output	230 kW	Pulsed magnetron oscillator
Pulse Repetition Rate Minimum	400 pps	Pulsed magnetron oscillator
Pulse Repetition Rate Maximum	4000 pps	Pulsed magnetron oscillator

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